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NINJATRADER 8 INDICATOR · NINJASCRIPT, C#

User Guide

RSI levels projected onto the price scale as bands, signals scored on five confluence layers, an entry, a stop and three targets, an 18-row dashboard and alerts.

PRODUCT	Reverse RSI Phantom for NinjaTrader 8
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SHA-256	`3ff7d488b75bbe3259c57f8cd579cf8da331dfc6790105d89d6df6b68225f6a3`
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01

What it is

Chart indicator for NinjaTrader 8 Desktop (NinjaScript, C#). It solves the RSI backwards: on every bar it works out the close that would make that bar's RSI print the Overbought level, the Oversold level and 50, and draws those three prices on the chart as an upper band, a lower band and a midline. A supertrend built on the midline decides the trend regime.

A signal needs a trigger: the regime flipping, the close crossing back through a band, or a confirmed RSI divergence. On that bar the indicator scores five layers, one point each: trend, RSI, band retest, divergence and volume. The signal fires when the score reaches the Minimum Confluence Score, the trend gate agrees and no signal in the same direction fired within the Signal Cooldown. It marks the signal with a BUY or SELL plate rated in stars, and draws an entry line, a stop and three targets with price tags for the live trade. It also fills the bands with a per-bar gradient, colours the candles by regime, marks trend shifts and divergences, shows an 18-row dashboard and has 13 alert events. It only draws and alerts: it never places, modifies or closes orders.

Two properties of the score matter when reading it. Three layers (RSI, band retest, volume) score their point automatically when their filter is switched off, so switching one off makes signals more frequent, not rarer. The divergence layer does the opposite: switching it off removes that point and that trigger, and the highest score becomes 4.

The dashboard's PERFORMANCE row is a tally of what the drawn plan would have met on the bars this chart has loaded. It is not a backtest: it has no spread, commission, slippage or position size. A stop after TP1 counts as a win, and a trade replaced by a new signal before it reaches TP3 or its stop is not counted.

02

Installation

Requirements

- NinjaTrader 8.1.x Desktop for Windows (tested on 8.1.9.0). Not for NinjaTrader 8.0 or NinjaTrader Web.
- Any data connection that delivers bars with volume for the chart. No Order Flow+ features, no depth, no tick history. One confluence layer and one dashboard row read the volume.

Import the Add-On package

1. Control Center > Tools > Import > NinjaScript Add-On.
2. Select `ReverseRsiPhantom.zip` and confirm. NinjaTrader compiles the assembly and reports that the import is complete.
3. No restart is needed. If a chart already had an older version, remove and re-add the indicator (a compile does not reload running instances).

Verify installation

1. Open a chart with at least a few hundred bars (any instrument, a 1 to 60 minute interval is a good first look), press Ctrl+I.
2. In the Available list find **Reverse RSI Phantom**, click add, click OK.
3. The chart shows: - an upper and a lower band, each two lines with a gradient fill between them, and a midline between the bands in the regime's colour; - the candles coloured by the regime; - a `BUY ▲` or `SELL ▼` plate with a star rating on every signal bar; rest the pointer on one to see its levels; - `TP1 HIT`, `TP2 HIT`, `TP3 HIT ✓` and `SL HIT` plates on the bars where a trade reached a level; - small triangles where the regime flipped and where a divergence confirmed; - for the live trade, an entry line, a stop and three targets with price tags; - the 18-row dashboard in the top-right corner.

The bands need the RSI to warm up, so the first bars of a chart show none of this. The fill fades out when price sits near the midline, so a stretch of band with no fill is normal. If no levels are showing, the last trade has already closed at TP3 or its stop: the dashboard's ACTIVE SIGNAL section then reads WAITING.

Uninstall / update

- Remove: Control Center > Tools > Remove NinjaScript Assembly > Reverse RSI Phantom.
- Update: import the new zip over the installed version (NinjaTrader replaces the assembly), then remove and re-add the indicator on every chart that uses it, or reload the workspace.

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Quick start

First chart

1. Add **Reverse RSI Phantom** to a chart (Ctrl+I). Leave every setting at its default.
2. Load enough history: the first bars of a short chart can differ slightly from a chart with more days loaded, because the RSI and supertrend averages settle over a few hundred bars. **Days to load** is in the chart's Data Series dialog.
3. The RSI is built from NinjaTrader's own **Input series** setting in the Indicators dialog, Close by default.

Reading the chart

- **Bands**: on each bar the upper band sits at the close that would make that bar's RSI print the **Overbought RSI Level**, the lower band at the close for the **Oversold RSI Level**. Each band has an outer edge, and the area between the two lines carries a gradient fill. The fill grows more opaque as price approaches the band and fades out when price sits near the midline, so a stretch with no fill is normal.
- **Midline**: the close that would make the RSI print 50, in the colour of the trend regime. A supertrend built on this line decides the regime: bullish or bearish.
- **Candles**: coloured by the regime, faded towards your chart background, more on a down bar than on an up bar. **Color Bars by Trend** switches this off.
- **Plates**: `BUY ▲` under the bar and `SELL ▼` over it, on the signal bar. The stars are the score. Rest the pointer on a plate to see the confluence score, entry, stop and three targets. The chart keeps the newest 500 plates, and older plates drop off.
- **HIT plates**: `TP1 HIT`, `TP2 HIT` and `TP3 HIT ✓` above the bar and `SL HIT` under it, on the bar where the live trade reached that level.
- **Triangles**: a small triangle at the 7-bar low where the regime turned bullish, at the 7-bar high where it turned bearish.
- **Divergence**: a small triangle at the pivot's low or high, one bar back from the bar that confirmed it, and a thin line from the previous pivot to that pivot.
- **Lines and tags**: the live trade. A solid white entry line, a dashed stop, TP1 and TP2 dashed, TP3 dotted, each running 40 bars from the signal bar, with a price tag at its end. When a tag would lie past the right edge of the chart it is pulled inside, and its line ends where the tag starts.

How a signal fires

A signal is a trigger that passes a score, a trend gate and a cooldown.

1. **Trigger.** Bullish: the regime turned bullish on this bar, or the close crossed up through the lower band, or a bullish divergence confirmed while **Divergence counts toward confluence** is on. Bearish is the mirror image.
2. **Score**, one point each, 0 to 5:

LAYER	SCORES A POINT WHEN
trend	the regime agrees with the direction
RSI	for a BUY the RSI crossed up through the oversold level or is above 50; or **Require RSI Confirmation** is off
band retest	the bar's low touched the lower band within the last 8 bars (for a SELL, the high and the upper band); or **Require Band Retest Context** is off
divergence	a divergence confirmed on this bar and **Divergence counts toward confluence** is on
volume	this bar's volume is at or above its 20-bar average; or **Require Volume Confirmation** is off

The score must reach **Minimum Confluence Score**. 3. **Trend gate.** With **Require trend agreement for signals** on, a BUY needs a bullish regime and a SELL a bearish one. 4. **Cooldown. Signal Cooldown (bars)** between two signals in the same direction. A BUY does not block a SELL.

If both sides qualify on one bar, the higher score wins, and on a tie BUY wins.

How a trade ends

The entry is the signal bar's close. **Stop Loss Mode** decides the stop, the distance from entry to stop is one R, and the targets are **TP1 / TP2 / TP3 Risk:Reward** multiples of it. The risk is never smaller than ten ticks.

On every bar, before looking for a new signal, the live trade is checked in this order:

1. TP1, then TP2, then TP3: a long target is hit when the bar's high reaches it, a short one when the low does. One bar can take several. TP3 closes the trade as a win and removes the whole set of lines and tags.
2. The stop: the low for a long, the high for a short. It removes the set. A stop after TP1 counts as a win, a stop before TP1 as a loss.

A new signal replaces a live trade without scoring it. The plates stay when a trade ends.

The dashboard

Eighteen rows, three columns. Every value is the newest record: the last closed bar with `OnBarClose`, the forming bar in a per-tick mode.

SECTION	SHOWS
header	product name, an empty cell, the instrument and interval
MARKET CONTEXT	trend regime; price against the midline; ATR in price and as % of price
RSI ENGINE	RSI with OVERBOUGHT, OVERSOLD, Bull, Bear or Neutral; the two band prices; a divergence on this bar and volume against its 20-bar average
CONFLUENCE	the standing BUY and SELL scores with the minimum needed. A standing score is not a signal: a signal also needs a trigger, the trend gate and the cooldown
ACTIVE SIGNAL	direction with stars and bars since the signal, or WAITING; entry with open result in %; stop with distance in %; three targets, each with a tick once reached
PERFORMANCE	win rate, signals as nB/nS, TP and SL hit counts. A tally of the drawn plan on the loaded bars, not a backtest

Settings to try first

SETTING	WHAT IT CHANGES
Minimum Confluence Score	1 is loosest, 5 strictest. Raise it, or **Signal Cooldown**, for fewer signals.
Require Volume / RSI / Band Retest	A filter switched off scores its point automatically, so switching one off gives more signals, not fewer.
Divergence counts toward confluence	Off removes the divergence trigger and its point: the highest score becomes 4.
Overbought / Oversold RSI Level	Narrowing the pair towards 50 brings both bands close to price and gives many more signals.
Supertrend Factor	Larger means fewer regime flips.
Stop Loss Mode, **SL ATR Multiplier**, **TP1 / TP2 / TP3 Risk:Reward**	The stop and the targets.
Show SL / TP Levels on Chart	Drawing only: with it off every trade is still tracked, scored, alerted and shown on the dashboard.
BUY Label Text / SELL Label Text	Four wordings each, among them a coloured disc, which the indicator paints itself.
Signal History, Show TP/SL Hit Labels, Signal Marker Style, Signal Label Size, Signal Label Opacity	In **09 Display**. For a busy chart: fewer, smaller or plainer markers. Drawing only: no signal, level or alert changes.
Dashboard Position / Dashboard Size	Six positions and four sizes.

Alerts

Thirteen events behind **Enable Master alert() Pushes**, each with its own switch in **10 Alert Delivery**. On by default: BUY Signal, SELL Signal, Bullish Divergence, Bearish Divergence, TP1, TP2, TP3 and SL Hit. Off by default: Any Signal, the two trend shifts and the two band entries.

Every alert appears in the Alerts Log window. **Alert Log Line** also writes it to the NinjaScript Output window, **Alert Sound** plays a sound with it, and **Alert E-mail** sends it through the Mail share service configured in NinjaTrader. BUY and SELL carry the entry, stop, three targets and score:

`RRP • BUY Signal | 🟢 RRP BUY MNQ 5 | Entry: 20123.25 | SL: 20101.50 | TP1: 20145.00 | TP2: 20166.75 | TP3: 20199.38 | Score: 4/5`

The other events carry one sentence, for example `RRP • TP1 Hit | Reverse RSI Phantom: TP1 hit on MNQ 5`. **Webhook JSON Format** writes the BUY and SELL text as one JSON object instead.

Alerts fire only on live bars, never for the history loaded when the indicator is added, once per event and bar, when the bar closes. This edition has no webhook.

What it does not do

It places no orders. It marks where its rules fired and draws the levels those rules compute; it does not forecast where price goes next.

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Calculate mode and bar timing

- Default `Calculate.OnBarClose`: one commit per closed bar. The plots, lines, plates and dashboard move when a bar closes. The last historical bar, still forming when the chart loads, is previewed and committed once it has closed.
- `OnEachTick` / `OnPriceChange`: the closed bar is committed once, at the first tick of the next bar, and the forming bar is previewed at most four times a second. A preview is rolled back completely before the next one: the series, the trade state, the counters and the drawing. A target touched and un-touched on a forming bar leaves no trace.
- **Non-Repaint Mode** on (default): a signal is decided when its bar closes and never changes. Off, in a per-tick mode: the trigger and the score are judged on the forming bar, so a plate can appear and disappear before the bar closes. On history the two are identical, and with `OnBarClose` the only bar the switch can touch is the forming bar previewed when the chart loads. Target and stop checks run on a forming bar in both positions, so a HIT plate can appear on a forming bar and go again.
- The bands are built from the previous bar's RSI averages and the previous bar's price, so a band does not move while its bar forms and does not change after it closes.
- Alerts belong to closed bars only: every event, the target and stop hits included, is delivered when its bar is committed.
- With no tick arriving, a bar has not closed for NinjaTrader. On a closed market the session's last bar stays a preview until the next session opens, so a signal on that bar appears then, and its alert is normally dropped as stale.
- The indicator keeps calculating while its chart window is minimized (`IsSuspendedWhileInactive = false`), and an alert is raised only for a bar that closed within the last two bar periods plus five seconds, so a catch-up or a reconnect does not replay old alerts. On tick, volume, range and other non-time bars that limit is at least five minutes.
- NinjaTrader stamps a bar with its close. A bar's open time is the stamp minus the bar period (on non-time bars, the smallest spacing of the first 300 bars). Only the CSV dump reads it: everything drawn is positioned by bar index.
- The price axis follows the bars, not the drawings (`IsAutoScale = false`), so a far band, stop or target can lie outside the panel.

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Outputs for strategies and the Market Analyzer

PLOT / SERIES	DRAWN	VALUES
`RsiUpper` (plot 0)	yes	the upper band; unset during its warm-up and with Show RSI Bands off
`RsiLower` (plot 1)	yes	the lower band; unset during its warm-up and with Show RSI Bands off
`RsiUpperOuter` (plot 2)	yes	the upper band's outer edge; unset as above
`RsiLowerOuter` (plot 3)	yes	the lower band's outer edge; unset as above
`RsiMidline` (plot 4)	yes	the price at which the RSI would print 50; unset during its warm-up and with Show Midline off
`BuySignal` (plot 5)	no	1 on the bar of a BUY signal, 0 otherwise
`SellSignal` (plot 6)	no	1 on the bar of a SELL signal, 0 otherwise
`BuyScore` (plot 7)	no	the standing BUY score, 0 to 5, on every bar. A standing score is not a signal
`SellScore` (plot 8)	no	the standing SELL score, 0 to 5, on every bar
`TrendRegime` (plot 9)	no	1 bullish, -1 bearish, 0 before the regime exists
`ActiveDirection` (plot 10)	no	the live trade after the bar: 1 long, -1 short, 0 none
`EntryPrice` (plot 11)	no	the live trade's entry; unset when no trade is live
`StopLevel` (plot 12)	no	the live trade's stop; unset when no trade is live
`Target1`, `Target2`, `Target3` (plots 13 to 15)	no	the live trade's targets; unset when no trade is live

The hidden series follow the calculation and not the drawing switches, so **Show SL / TP Levels on Chart** off leaves them unchanged.

With `Calculate.OnBarClose`, `[0]` is the bar that just closed. With `OnEachTick` / `OnPriceChange`, the bar that just closed is `[1]` and `[0]` is the forming bar's preview.

Example in a strategy: `var rrp = ReverseRsiPhantom(...); if (rrp.BuySignal[0] > 0) ...` (the accessor is generated by NinjaTrader on compile; every input except the four colours is one of its arguments).

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Parameters

The 40 inputs in groups 01 to 08 keep the titles, order, defaults and ranges of the other editions (the group names carry a number prefix because NinjaTrader sorts groups alphabetically). The price series the RSI is built from is NinjaTrader's own Input Series setting, Close by default, so it has no row of its own. Groups 09 Display, 10 Alert Delivery and 11 NinjaTrader hold the 29 platform settings: 69 parameters in total.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
01 RSI Engine	Smooth Upper/Lower Bands (EMA)	bool	true		`SmoothBands`	Runs the two band prices through an EMA before they are drawn. Off gives the raw inversion: faster, and noticeably jumpier. The midline is never smoothed either way.
01 RSI Engine	RSI Length	int	14	2,int.MaxValue	`Len`	The RSI period the bands are inverted from, and the period of the oscillator the divergence detector reads. Shorter means closer bands and far more band touches.
01 RSI Engine	Overbought RSI Level	double	70.0	50.0 to 100.0	`ObLevel`	The RSI level the upper band represents. On each bar the band is drawn at the close that would make that bar's RSI print this number.
01 RSI Engine	Oversold RSI Level	double	30.0	0.0 to 50.0	`OsLevel`	The RSI level the lower band represents. Narrowing the pair towards 50 brings both bands close to price and produces many more signals.
01 RSI Engine	Band Smoothing EMA	int	14	1,int.MaxValue	`EmaLen`	The EMA period used when Smooth Upper/Lower Bands is on.
02 Trend Filter (Supertrend on Midline)	Supertrend Factor	double	0.4	0.1 to 5.0	`StFactor`	Band width of the supertrend that decides the trend regime. Larger means fewer regime flips, so fewer trend-shift triangles and fewer confluence points from the trend layer.
02 Trend Filter (Supertrend on Midline)	Supertrend ATR Length	int	15	1,int.MaxValue	`StAtrLen`	Averaging period for that supertrend. It is computed from the midline's own range, not from the bars' ATR, which is what makes the regime follow the RSI structure rather than price volatility.
02 Trend Filter (Supertrend on Midline)	Require trend agreement for signals	bool	true		`UseTrendGate`	When on, a BUY can only fire in a bullish regime and a SELL only in a bearish one. Off lets counter-trend reversals through.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
03 Signal Engine	Enable BUY/SELL Signals	bool	true		`EnableSignals`	Master switch for the signal plates and the SL/TP levels. The bands, the midline and the dashboard keep working.
03 Signal Engine	Minimum Confluence Score	int	2	1 to 5	`MinConfluence`	How many of the five layers must agree before a signal fires: trend, RSI confirmation, band retest, divergence, volume. 1 is loosest, 5 strictest.
03 Signal Engine	Require Volume Confirmation (>= 1.0x SMA20)	bool	true		`UseVolConfirm`	Adds volume to the score: the bar must trade at or above its 20-bar average. Off awards the point to every bar, so signals become more frequent, not fewer.
03 Signal Engine	Require RSI Confirmation	bool	true		`UseRsiConfirm`	Adds an RSI condition to the score: for a BUY the oscillator must cross up through oversold or already be above 50. Off awards the point to every bar.
03 Signal Engine	Require Band Retest Context	bool	true		`UseBandRetest`	Adds a context condition to the score: price must have been at or inside the far band within the last 8 bars. Off awards the point to every bar.
03 Signal Engine	Signal Cooldown (bars)	int	8	1 to 200	`SignalCooldown`	Minimum bars between two signals in the same direction. A BUY does not block a SELL.
03 Signal Engine	Non-Repaint Mode (signals confirm on bar close)	bool	true		`NonRepaintMode`	Holds a signal until its bar closes. On history this changes nothing, because every bar is closed. Off, with Calculate OnEachTick or OnPriceChange, a signal can appear on the forming bar and disappear again before the close.
04 Risk Management (SL / TP)	Show SL / TP Levels on Chart	bool	true		`ShowSlTp`	Draws the five level lines and their price tags. Drawing only: the trade is still tracked and scored, and the dashboard and the alerts keep running with this off.
04 Risk Management (SL / TP)	Stop Loss Mode	NinjaTrader.NinjaScript.RrpSlMode	NinjaTrader.NinjaScript.RrpSlMode.AtrPlusBand		`SlMode`	How the stop is placed. AtrPlusBand takes the wider of an ATR stop and a band-based one. PureAtr uses the ATR stop alone. RecentSwing uses the extreme of the last 10 bars, a quarter of an ATR beyond it.
04 Risk Management (SL / TP)	SL ATR Length	int	14	1,int.MaxValue	`SlAtrLen`	Averaging period of the ATR used for the stop and for the plate offsets, also shown on the dashboard.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
04 Risk Management (SL / TP)	SL ATR Multiplier	double	1.5	0.1 to 10.0	`SlAtrMult`	How many ATRs away the ATR stop sits. Smaller means a tighter stop, a smaller risk unit and closer targets. The risk unit is never smaller than ten ticks.
04 Risk Management (SL / TP)	TP1 Risk:Reward	double	1.0	0.5 to 10.0	`RrTp1`	First target, as a multiple of the stop distance. Reaching it turns a later stop-out into a win in the tally.
04 Risk Management (SL / TP)	TP2 Risk:Reward	double	2.0	0.5 to 10.0	`RrTp2`	Second target, as a multiple of the stop distance.
04 Risk Management (SL / TP)	TP3 Risk:Reward	double	3.5	0.5 to 10.0	`RrTp3`	Third target, as a multiple of the stop distance. Reaching it closes the trade as a win and removes its lines.
04 Risk Management (SL / TP)	Level Line Extension (bars)	int	40	5 to 500	`ExtendBars`	How many bars to the right of the signal the five lines run; the price tags sit one bar beyond, which can be in the future.
05 Divergence Detector	Plot RSI Divergences	bool	true		`PlotDivs`	Draws the divergence connector lines and their marks. Drawing only: a divergence still counts towards the score if the switch below is on.
05 Divergence Detector	Divergence Left Lookback	int	5	1,int.MaxValue	`DivLbL`	How many bars to the left a pivot needs to be an extreme. Smaller finds many more pivots, so divergences become common.
05 Divergence Detector	Divergence counts toward confluence	bool	true		`UseDivSignal`	Lets a divergence add a confluence point and act as a signal trigger. Off removes the trigger and lowers the maximum score to 4.
06 Visuals	Bullish Color	colour	#00E5A8		`BullBrush`	The lower band, the bullish regime, BUY plates and every target.
06 Visuals	Bearish Color	colour	#FF3B5C		`BearBrush`	The upper band, the bearish regime, SELL plates and the stop.
06 Visuals	Show RSI Bands	bool	true		`ShowBands`	Draws the two bands, their outer edges and the gradient fills between them.
06 Visuals	Show Midline	bool	true		`ShowMid`	Draws the RSI-50 line, coloured by the trend regime.
06 Visuals	Color Bars by Trend	bool	true		`ColorBars`	Colours every candle by the current regime, with a gradient against your chart background.
06 Visuals	BUY Label Text	NinjaTrader.NinjaScript.RrpBuyLabel	NinjaTrader.NinjaScript.RrpBuyLabel.BuyTriangle		`BuyLblStyle`	Wording on the BUY plate: BuyTriangle = BUY with an up triangle, BuyCircle = a green disc and BUY, Buy = BUY, LongArrow = an up arrow and LONG. Applies to the Label marker style only.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
06 Visuals	SELL Label Text	NinjaTrader.NinjaScript.RrpSellLabel	NinjaTrader.NinjaScript.RrpSellLabel.SellTriangle		`SellLblStyle`	Wording on the SELL plate: SellTriangle = SELL with a down triangle, SellCircle = a red disc and SELL, Sell = SELL, ShortArrow = a down arrow and SHORT. Applies to the Label marker style only.
07 Dashboard	Show Info Dashboard	bool	true		`ShowDash`	The 18-row panel: market context, RSI engine, confluence, the live trade and a running tally.
07 Dashboard	Dashboard Position	NinjaTrader.NinjaScript.RrpDashPos	NinjaTrader.NinjaScript.RrpDashPos.TopRight		`DashPos`	Which corner or edge the panel sits in, six choices.
07 Dashboard	Dashboard Size	NinjaTrader.NinjaScript.RrpDashSize	NinjaTrader.NinjaScript.RrpDashSize.Tiny		`DashSize`	Panel text size, Tiny to Large. Row labels and highlighted values use two ladders one step apart.
07 Dashboard	Dashboard Background	colour	#0A1929		`DashBgBrush`	Moving this changes nothing: every row colour of the panel is fixed. It stays so the settings match the other editions one for one.
07 Dashboard	Dashboard Header Color	colour	#1976D2		`DashAccBrush`	Colour of the panel's top row.
08 Alerts	Enable Master alert() Pushes	bool	true		`EnableAlerts`	Master switch for alert delivery. Off, no event is delivered, whatever the per-event switches in 10 Alert Delivery say.
08 Alerts	Webhook JSON Format	bool	false		`WebhookJson`	Writes the BUY / SELL alert text as one JSON object instead of the multi-line text. This edition posts no webhook: the setting changes the text only.
09 Display	Label Glyphs	NinjaTrader.NinjaScript.RrpGlyphs	NinjaTrader.NinjaScript.RrpGlyphs.Unicode		`Glyphs`	Unicode prints the arrows, stars and ticks as designed. Ascii substitutes plain characters for a machine whose fonts cannot draw them. Chart markers are shapes either way.
09 Display	Signal History (0 = all)	int	0	0 to 500	`SignalHistory`	Keep only the last N BUY/SELL signals on the chart, each with its TP/SL hit markers. 0 keeps them all, up to the cap of 500 labels.
09 Display	Show TP/SL Hit Labels	bool	true		`ShowHitLabels`	The TP1/TP2/TP3/SL HIT markers drawn as a trade reaches each level. Off hides them; the level lines and the dashboard are unaffected.
09 Display	Signal Marker Style	NinjaTrader.NinjaScript.RrpMarkerStyle	NinjaTrader.NinjaScript.RrpMarkerStyle.Label		`MarkerStyle`	Label draws the plate and is the default. Triangle, Arrow and Dot draw one coloured character with no plate and no text, whatever BUY/SELL Label Text says.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
09 Display	Signal Label Size	NinjaTrader.NinjaScript.RrpLabelSizeMode	NinjaTrader.NinjaScript.RrpLabelSizeMode.Auto		`LabelSize`	Auto keeps the plate's standard size, the largest. The fixed sizes make the plate smaller.
09 Display	Signal Label Opacity (0-100)	int	0	0 to 100	`LabelOpacity`	Transparency of the signal marker: 0 is solid and is the default, 100 is invisible.
09 Display	Show Trend Shift Markers	bool	true		`ShowTrendShift`	The small triangles where the trend filter flips. Off hides them. Divergence marks have their own switch, Plot RSI Divergences. Nothing is calculated differently.
09 Display	Clamp Right-Edge Labels	bool	true		`ClampRightEdgeLabels`	Keeps the ENTRY / SL / TP price tags inside the right edge of the chart when their bar lies beyond it; the line ends where its tag starts. Off lets them run off-screen unless the chart has room on the right.
09 Display	Show Hover Tooltips	bool	true		`ShowTooltips`	Rest the pointer on a BUY or SELL plate to see its score, entry, stop and targets. Dragging and zooming are unaffected.
10 Alert Delivery	Alert Log Line	bool	true		`AlertLogLine`	Writes each alert to the NinjaScript Output window. Every alert also appears in the Alerts Log window.
10 Alert Delivery	Alert Sound	bool	false		`AlertSound`	Plays a sound with each alert.
10 Alert Delivery	Alert Sound File	string	"Alert2.wav"		`AlertSoundFile`	A file name inside the NinjaTrader sounds folder, for example Alert2.wav, or the full path to a .wav file. Blank plays Alert2.wav.
10 Alert Delivery	Alert E-mail	bool	false		`AlertEmail`	Sends each alert by e-mail through the Mail share service configured in NinjaTrader (Tools > Options > Share).
10 Alert Delivery	E-mail To	string	""		`EmailTo`	Recipient address for alert e-mails. Blank sends none.
10 Alert Delivery	Alert: BUY Signal	bool	true		`AlertBuySignal`	Delivers an alert when a BUY plate is drawn.
10 Alert Delivery	Alert: SELL Signal	bool	true		`AlertSellSignal`	Delivers an alert when a SELL plate is drawn.
10 Alert Delivery	Alert: Any Signal	bool	false		`AlertAnySignal`	Delivers an alert on either direction. Off by default, because the two above already cover it.
10 Alert Delivery	Alert: Bullish Trend Shift	bool	false		`AlertBullTrendShift`	The regime turning bullish. Off by default: far more frequent than a signal.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
10 Alert Delivery	Alert: Bearish Trend Shift	bool	false		`AlertBearTrendShift`	The regime turning bearish. Off by default: far more frequent than a signal.
10 Alert Delivery	Alert: Bullish Divergence	bool	true		`AlertBullDivergence`	A bullish RSI divergence confirming.
10 Alert Delivery	Alert: Bearish Divergence	bool	true		`AlertBearDivergence`	A bearish RSI divergence confirming.
10 Alert Delivery	Alert: Entered Upper Band	bool	false		`AlertEnteredUpperBand`	The close crossing up into the upper band. Off by default.
10 Alert Delivery	Alert: Entered Lower Band	bool	false		`AlertEnteredLowerBand`	The close crossing down into the lower band. Off by default.
10 Alert Delivery	Alert: TP1 Hit	bool	true		`AlertTp1Hit`	The first target reached.
10 Alert Delivery	Alert: TP2 Hit	bool	true		`AlertTp2Hit`	The second target reached.
10 Alert Delivery	Alert: TP3 Hit	bool	true		`AlertTp3Hit`	The third target reached; the trade is closed.
10 Alert Delivery	Alert: SL Hit	bool	true		`AlertSlHit`	The stop reached; the trade is closed.
11 NinjaTrader	Debug Mode	bool	false		`DebugMode`	Writes diagnostics to rrp_nt_debug.log in the NinjaTrader 8 folder.
11 NinjaTrader	Dump Bars + Outputs CSV	bool	false		`DebugDumpCsv`	Writes every committed bar with the engine outputs to rrp_dump_<instrument>_<period>.csv in the NinjaTrader 8 folder (parity checks).

69 parameters.

07

Sessions, time and volume

Sessions

The indicator has no session logic of its own: every bar the chart delivers is fed to the engine in order, so the chart's Trading Hours template decides which bars exist. With an ETH template (for example `CME US Index Futures ETH`) the overnight bars take part in the RSI, the bands, the supertrend, the ATR and the signals; with an RTH template they do not. Both are valid, and the values differ, as they do for any indicator. A band across a session gap simply joins the bars on both sides.

The final bar of a session

NinjaTrader closes a bar when the next bar's first tick arrives, so on a closed market the session's last bar stays a preview until the next session opens. A signal on that bar appears then. Its alert is raised only if the reopen comes within two bar periods plus five seconds of that bar's close, so after a long break the plate prints with no alert. The same applies to any later close on a quiet instrument.

Time stamps

NinjaTrader stamps a bar with its CLOSE time in the platform time zone. The bar's open time is reconstructed as close time minus the bar period; on non-time bars the smallest spacing of the first 300 bars stands in for the period. Only the CSV dump reads it. Nothing in the calculation reads the clock, and everything drawn is positioned by bar index. Slots past the last bar, where the level lines and their tags usually end, are placed at the average bar spacing of the view.

Volume

Volume on a futures chart is real contract volume. The volume layer compares a bar's volume with its own 20-bar average, in either direction: the same reading scores for a BUY and for a SELL. On a forex feed the volume is whatever the feed supplies, usually a tick count. The bands, the supertrend and the stops do not read volume.

Contract rollover

A continuous contract (merge policy `MergeBackAdjusted` or `MergeNonBackAdjusted` in the Data Series dialog) shows a price jump at the roll unless back-adjusted. A non-back-adjusted roll feeds one oversized price change into the RSI averages, which moves the bands and the midline for a while, and one oversized true range into the ATR, which widens the stops that follow it. State the merge policy when comparing values across machines.

History

RSI, EMA and Wilder averages settle over a few hundred bars, so the first bars of a short chart can differ slightly from a chart with more days loaded. The dashboard's PERFORMANCE row counts the bars the chart has loaded, so it changes with **Days to load**.

08

Compatibility

ITEM	STATUS
NinjaTrader version	8.1.x Desktop (tested 8.1.9.0). Not 8.0, not NinjaTrader Web or mobile.
Product type	Indicator, price panel overlay, single data series.
Instruments	Any instrument with bars and volume: futures, micro futures, forex, stocks.
Bar types	Time-based (second, minute, day, week, month, year) fully. Tick, volume, range, Renko and other non-time bars run; on them the alert's age limit is at least five minutes.
Input series	The RSI is built from NinjaTrader's own Input series setting, Close by default. Everything else reads the chart's bars.
Calculate modes	OnBarClose (default), OnEachTick, OnPriceChange (forming bar previewed at most four times a second). With OnEachTick or OnPriceChange, Tick Replay takes the per-tick path.
Multi-instance	Yes. Every instance paints its own surface, and every alert id carries the instrument, the period and an instance hash. Two dashboards at one position overlap: use **Dashboard Position**.
Market Analyzer	Loads with no drawing; the series in the README's outputs section are available as columns. Not advertised as a scanner.
Strategies	The series are calculated on every historical bar, so a strategy can read them, with no drawing and no alerts in a backtest.
Data requirements	Bars with volume. On a feed without volume the volume layer scores no point while **Require Volume Confirmation** is on.

ITEM	STATUS
Rendering	SharpDX in `OnRender` with DPI scaling and full resource cleanup on render-target change and termination. No draw objects. The five plots are NinjaTrader's own.
Candle colours	`BarBrushes` and `CandleOutlineBrushes`, on candlestick and other bar styles the chart supports.
Dark and light charts	The fills and the candles fade towards the chart background, read when the indicator loads; after changing the background, reload the chart (F5). The entry line and the plate text are white by design and read on a dark background.
Templates and workspaces	All settings serialize (colours through the standard brush serializer).
Minimized chart	Keeps calculating and alerting while its chart window is minimized (`IsSuspendedWhileInactive` off). A bar that closed more than two bar periods plus five seconds ago is not alerted, so a reconnect or a catch-up does not produce a burst of stale alerts.
Alerts	Alerts Log, NinjaScript Output, sound, and e-mail through NinjaTrader's Mail share service. No webhook, and no network call of its own.
Order handling	None. The indicator never touches orders, positions or accounts.

09

Troubleshooting

SYMPTOM	CAUSE AND FIX
Nothing on the chart	Check that the licence is active for your NinjaTrader login and that the indicator is in the Configured list (Ctrl+I). It paints in the price panel: with the indicator in its own panel it is not visible over the candles.
The bands have no fill over long stretches	By design. The fill's opacity follows how close price has been to that band over the last 14 bars, so it fades out while price sits near the midline.
The bands are far from price	They mark the close that would make the bar's RSI print the Overbought and Oversold levels. Narrow the pair towards 50 to bring them closer. The price axis follows the bars, not the drawings, so a band can lie outside the panel: drag the price axis to see it.
I switched a filter off and got more signals	By design. **Require Volume Confirmation**, **Require RSI Confirmation** and **Require Band Retest Context** each score their point automatically when switched off, so switching one off raises every score. To make signals rarer, raise **Minimum Confluence Score** or **Signal Cooldown**.
I switched divergence off and got fewer signals	**Divergence counts toward confluence** off removes the divergence trigger and its point, so the highest score becomes 4. **Plot RSI Divergences** is the drawing-only switch.
The levels disappeared	The last trade reached TP3 or its stop: its lines and tags are removed and ACTIVE SIGNAL reads WAITING until the next signal.
A trade shows as a win although the stop was hit	A stop after TP1 was reached counts as a win in the PERFORMANCE row. That is the tally's rule.
The dashboard shows a score of 3 but no signal fired	The score row is the standing reading of the five layers on the newest bar. A signal also needs a trigger on that bar, the trend gate and no same-direction signal within the cooldown.
A HIT plate appeared and went again	With OnEachTick or OnPriceChange the forming bar is previewed, and target and stop checks run on it. If the bar closes differently the preview is rolled back. Only the closed bar counts, and only it alerts.
Old plates vanished on a long chart	The indicator keeps the newest 500 plates and drops the oldest. Nothing about the calculation changes. **Signal History** can keep fewer.
The plates cover the candles	In **09 Display**: **Signal Label Size** for smaller plates, **Signal Marker Style** for one coloured character, **Signal History** for fewer, **Show TP/SL Hit Labels** off for no HIT plates.
Everything updates only when a bar closes	That is the default `OnBarClose`. Choose OnEachTick or OnPriceChange to see the forming bar.
A signal on the session's last bar appears only after the next open	With no tick arriving, a bar has not closed for NinjaTrader. It is committed when the next session opens, and its alert is normally dropped as stale.
Values differ from another platform on the same symbol	Bars differ by feed and session template; compare on identical bars (see the chapter on how this edition was verified).
Arrows, stars or ticks show as boxes	The system fonts lack the glyphs. Set **Label Glyphs** to `Ascii`.
Dashboard Background does nothing	By design: every row colour of the panel is fixed. The setting stays so the settings match the other editions one for one.
Changing a plot colour in the Plots section does nothing	The five drawn plots take their colours from **Bullish Color** and **Bearish Color**. Width and dash style in the Plots section do work.

SYMPTOM	CAUSE AND FIX
The fills or candles look wrong after changing the chart background	They fade towards the background read when the indicator loaded. Reload the chart (F5).
The white entry line or the plate text is hard to see	They are white by design and read on a dark chart background. Use a dark chart, or read the entry from the dashboard.
Price tags sit inside the chart instead of beyond the last bar	**Clamp Right-Edge Labels** keeps them readable when they would fall past the right edge. Turn it off and add room with chart Properties > Right side margin to see them past the last bar.
No alerts arrive	Check **Enable Master alert() Pushes** and the event's own switch in **10 Alert Delivery**. Alerts fire only on live bars, when the bar closes, never for the history loaded when the indicator is added. A bar that closed more than two bar periods plus five seconds ago is not alerted. E-mail needs the Mail share service under Tools > Options > Share and an address in **E-mail To**.
Sound not played	**Alert Sound** must be on. **Alert Sound File** is a name inside `<NinjaTrader 8 install>\sounds\` or a full path to a .wav file.
Webhook	This edition has none. **Webhook JSON Format** changes the alert text only.
Text is tiny or huge	Sizes follow the Windows display scaling, **Dashboard Size** and **Signal Label Size**.
An error line names Reverse RSI Phantom in the Log tab	Set **11 NinjaTrader > Debug Mode** on, reproduce it, and send `Documents\NinjaTrader 8\rrp_nt_debug.log` with the chart interval, instrument and NinjaTrader version.
Two dashboards on one chart	Two instances are configured (Ctrl+I, Configured list). Remove one.

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How this edition was verified

The verification has two stages, which measure different things and are reported separately. Stage 1 ran on forex and gold bars, stage 2 on NinjaTrader bars, so the two figures are never added together.

Stage 1: the engine

The platform-free engine that ships here is the same code as the cTrader edition's engine apart from its namespace and using lines and one declared correction to the decimals printed for a tick that is not a power of ten, which changes text only. That engine was replayed bar by bar there:

CHECK	SCOPE	COMPARISONS	MISMATCHES
Calculated values	EURUSD M5, 21,125 bars, 7 sets of columns and 21 input sweeps	10,649,047	0, one declared sweep apart
A second symbol	XAUUSD M5, 20,122 bars, 2 sets of columns	543,312	0
The two band fills and the candle colours, per bar	EURUSD M5, 21,125 bars	105,625	0
Drawn objects: every table cell, line, price tag and plate	EURUSD M5, 21,161 bars	3,784 fields	0

The one declared sweep is **Stop Loss Mode** set to `RecentSwing`, which is not the default: 104,927 of its 380,358 cells differ. In that mode the reference calculation reads a swing value that depends on internal state, and on some signals returns 0, which makes the stop negative. This edition uses the extreme of the last 10 bars on every bar, so the stop is always a real price. It is the only difference in calculation, and the default `AtrPlusBand` never reaches it.

The one declared difference in the drawn objects is the dashboard header's middle cell, which ships empty.

Stage 2: NinjaTrader host vs the engine on identical NinjaTrader bars (2 November 2026)

With **Dump Bars + Outputs CSV** on, the indicator writes the bars it saw (time, open, high, low, close, volume) together with the engine outputs as the host received them: the price series, the RSI averages, the bands and the midline, the supertrend, the divergence chain, the confirmations, the triggers, the scores, the signals, the trade state and its counters, and the alert crossings. The same bars are replayed through a build of the cTrader edition's engine outside NinjaTrader, with no host in between, and every column is compared.

RUN	BARS	SERIES	CELLS	MISMATCHES
MNQ 1 Minute, historical load, NinjaTrader 8.1.9.0, default inputs	4,923	105	516,915	0

Live run, 2 Nov 2026: MNQ 1 Minute with Calculate set to OnEachTick, across the switch from history to live bars, with about 20 bars closing live: 4,191 bars, 105 series, 440,055 cells, 0 mismatches, 0 bar-identity mismatches.

What stage 2 proves: on a historical load the host feeds the engine one closed bar per chart bar, in order, and the engine's outputs inside NinjaTrader equal a replay outside it. How the surface paints is checked on a chart, not by this diff, and none of this says anything about future performance.

11

Licensing

License model

The product is distributed as a compiled NinjaScript Add-On and licensed through NinjaTrader's user-based Vendor Licensing (NinjaTrader 8.1.5.0 or later). A licence is tied to the customer's NinjaTrader account login, not to a machine: the same login works on every installation of NinjaTrader Desktop the customer uses, and no Machine ID has to be sent to the vendor. Licences are created in the NinjaTrader Ecosystem Vendor Dashboard against the customer's NinjaTrader account email address, with a licence type and an expiry date.

The indicator carries the `VendorLicense(productId)` call in its constructor, with the Product ID of its add-on in the Vendor Dashboard. NinjaTrader verifies the licence whenever the indicator is used.

No free trial

The product is sold as a paid licence only; no free trial is offered. A licence is issued to the buyer's NinjaTrader account email after payment, normally within a few hours.

Activation and transfer

Nothing to activate: log in to NinjaTrader with the licensed account. A new PC needs no transfer. NinjaTrader allows two simultaneous market-data sessions per account, which is what prevents a licence from being shared.

Behavior without a valid licence

NinjaTrader shows its own licence notice (invalid or expired) and stops calling the indicator's calculation and plot methods: the indicator draws nothing and raises no alerts, while its settings still load. It never places orders (it has no order code) and exposes no proprietary data. A licensing-server outage is handled by NinjaTrader's verification (it retries against a secondary server) and must never crash the chart.

Licensing is a practical access-control layer, not a guarantee against copying.

12

Support

Questions go through the contact page at https://kestutisbalciunas.com/contact/ with the NinjaTrader version, the instrument and the chart interval. For an error, switch **11 NinjaTrader > Debug Mode** on, reproduce it once and attach `rrp_nt_debug.log` from the `Documents/NinjaTrader 8` folder; switch Debug Mode off afterwards.

The product page, with the documentation and the change log, is https://kestutisbalciunas.com/ninjatrader/reverse-rsi-phantom/. Updates and refunds follow the terms on that page.

13

Risk disclosure

Trading involves substantial risk. Past, simulated, and backtested performance is not necessarily indicative of future results.

Futures, foreign currency and options trading contains substantial risk and is not for every investor. An investor could potentially lose all or more than the initial investment. Risk capital is money that can be lost without jeopardizing one's financial security or lifestyle. Only risk capital should be used for trading and only those with sufficient risk capital should consider trading.

Reverse RSI Phantom is a technical analysis tool. It draws RSI levels as price bands, marks triggers that meet a confluence score and draws levels computed from historical bars; it does not place, modify or close orders and it gives no trade advice. The stars, the scores and the trend regime describe how the indicator's rules read the bars; they are not probabilities and not forecasts. The PERFORMANCE row is a tally of what the drawn

plan would have met on the loaded bars, without spread, commission, slippage or position size, in which a stop after TP1 counts as a win and a replaced trade is not counted: it is not a backtest and not a record of trading results. Nothing in the software or its documentation is a promise of returns, win rates or funded-account success.

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