

SYSTEM 42: STAR 42, RD-42, TR-42

ANALOG FULL-DUPLEX TRANSMISSION & RECEPTION REPORTER SYSTEM





- SYSTEM 42 equipment is made up of the portable reporter unit STAR 42, RD42 true diversity receiver and TR42 talkback transmitter.
- It is a **broadcast quality full-duplex communication system**. Portable transmitter works in VHF band, talkback transmitter works in UHF band (possible at others under demand).
- With up 3W output power, the system allows working across wide areas, and it is specially designed to work in aggressive RF environments.
- The system is supplied with all necessary elements to work: antennas and battery for portable unit, antennas and power supply for base (RD42+TR-42) unit, external charger (which allows to charge batteries out and into the portable unit), and other complements.

Exceptional sturdiness and absolute reliability.





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TECHNICAL SPECIFICATIONS:

Radio

Transmitters

Uplink Frequency: VHF, 20 MHz window (other under demand) Uplink Frequency: VHF, 20 MHz window (other under demand)

Receivers

Downlink Frequency: UHF, 20 MHz window Downlink Frequency: UHF, 20 MHz window

Number of channels: 16 digital PLL Number of channels: 16 digital PLL

Modulation: ±30 KHz pre-emphasis 50us Modulation: ±30 KHz pre-emphasis 50us

Channel selection: 1 digit hexadecimal encoder, delayed Channel selection: 1 digit hexadecimal encoder, delayed Spurious emissions: <-60 dBc (portable); <-65 dBc (talkback) Spurious emissions: <-60 dBc (portable); <-65 dBc (talkback)

Output impedance: 50Ω Output impedance: 50Ω

Output power: Up to 3W (portable); Output power: Up to 3W (portable);

Up to 5W (talkback) Up to 5W (talkback)

Audio

TransmittersReceiversAudio input:Balanced Micro/line selectableOutput portable:Headphones output 1,5V / 8Ω

NR System: "SILENZO" compressor limiter Output base: Balanced 600Ω line / headphones front

Distortion: <0,3% Distortion: <0,3%

SNR: >85 dB (portable)

>100dB (base)

ON/OFF switch

General

ON/OFF switch Tx & Rx

STAR-42 RD-42 TR-42

Separate Rx & Tx channel selector Channel encoder control Micro/Line switch

Audio gain control Monitor volume & squelch Audio gain control

ON/OFF switch

Mechanized aluminum enclosure

Aluminum enclosure

Aluminum enclosure

Aluminum enclosure

Aluminum enclosure

Aluminum enclosure

Power external 12V DC / 0.25A

Power external 12V DC / 0.25A

DSP available on request Power external 12V DC / 0,25A Power external 12V DC / 2A

Battery status Indicators RSSI, VU-meter, Indicators RSSI, VU-meter, channel

channel, diversity A/B
Audio Peak
Audio connector XLR3 male
High capacity Lithium battery 11,2V / Power connector XLR4 male

Channel, diversity A/B
Audio connector XLR3 male
Audio connector XLR3 female
Power connector XLR4 male

7,8 Ah
Audio connector XLR3 female Dimensions: 300x145x40mm Dimensions: 300x145x40mm

Dimensions: 190x59x182 mm Weight: 0,9 kg Weight: 0,8 kg Weight: 2,5 kg (battery included)

Specifications subject changes without notice.



