

REPORTING UNIT WITH TALKBACK

AEQ LIVE 20 TR

The AEQ LIVE 20TR reporting unit is a portable, battery-powered system for high quality, full duplex audio transmission and reception. Its small size, light weight and long-lasting battery make it especially apt for live reporting applications outside the studio. This unit is complemented by the AEQ LIVE 20 R diversity receiver and the AEQ LIVE 20 T return transmitter.

The unit is composed of a 16-channel broadband transmitter and a 16-channel receiver operating within a spectrum assigned according to each country's standards. The receiver and transmitter can be activated independently of each other.

The transmitter is designed like a high quality wireless microphone whose transmitting power (up to 3 Watts) enables it to cover large areas.

Technically, its design gives it excellent features for radio applications in terms of coverage, stability, spectral purity and resistance to interference.

The audio section stands out because of its signal reproduction - fidelity in frequency and dynamics.

The unit is powered by intelligent lithium ion batteries. Its low power consumption guarantees reporters 4.5 hours of use at full power.

It can be used under the most adverse environmental conditions with no danger whatsoever.

The unit is delivered with a convenient leather bag that makes carrying it with a shoulder strap easy and comfortable.



AEQ LIVE 20 R



This is a true diversity receiver designed for outdoor use, generally for covering major events, and for on-the-scene reporting.

Its advanced design ensures high quality, both in audio and resistance to interferences. Together with the AEQ LIVE 20 T, it provides the reporter with a full duplex base station for working with the AEQ LIVE 20 TR portable unit.

AEQ LIVE 20 T

The AEQ LIVE 20T talkback transmitter is especially designed to give return signals to reporters using the AEQ LIVE 20TR unit. Together with the AEQ LIVE 20R receiver, it forms a full-duplex base system.

Another important application of the AEQ LIVE 20T is to provide talk-back / cue information using in-ear radio receivers, frequently used these days in all sorts of TV programs and video productions.



This will make news

REPORTING UNIT WITH TALKBACK

TECHNICAL SPECIFICATIONS

AEQ LIVE 20 TR

Transmission

Frequency range:
174-500 MHz, (for other ranges, consult with us)
20 MHz window
Nominal power: 3W
Number of channels: 16, digital PLL
Channel selector: Digital encoder with delay
Modulation:
+/- 30 KHz 50 us or 75 us pre-emphasis
Output impedance: 50 Ohm
Spurious signal emission: < -60 dBc
RF output connector: BNC type

Audio

Audio input:
1 Selectable balanced mic / line
Noise reduction system:
"Silenzo" compressor-limiter
Gain control: Front panel
Audio bandwidth:
50 Hz / 15 KHz +/- 0.5 dB
Distortion: < 0.3%
Audio connector: XLR3, Female
SNR: > 85 dB

Reception

Frequency range:
174-500 MHz, (for other ranges, consult with us)
20 MHz window
Sensitivity: -112 dBm @ 12 dB SINAD
Number of channels: 16, digital PLL
Channel selector: Digital encoder with delay
Demodulation:
+/- 30 KHz 50 us or 75 us pre-emphasis
Input impedance: 50 Ohm
Spurious signal emission: < -2 nW
RF output connector: TNC type

Audio

Outputs: 1.5 v/ 8 ohm headphone output
Noise reduction system: "Silenzo" expander
Audio peak indicator
Audio bandwidth: 50 Hz / 15 KHz +/- 0.5 dB
Distortion: < 0.3%
Audio connector: 1/4" stereo jack
SNR: > 85 dB

General

Power switch: independent receiver / transmitter
Digital channel selector:
Independent receiver / transmitter
Battery charge indicator: Multicolored LED
Power supply: Intelligent lithium ion battery
Battery endurance: > 4.5 hours / 3W
Weight: 2.1 kg / 4.62 lb
Dimensions: 190 x 59 x 182 mm
7.41" x 2.30" x 7.09"
Machined, milled aluminum case, microwave technology
D-SUB connector for frequency programming via PC

Accessories included

- Li-Ion battery - Antennas - Flight case
- Ch 41 Li-Ion battery charger: 90 to 240 VAC 50/60 Hz -12VDC - Shoulder antenna base

AEQ LIVE 20 T

Transmission

Frequency range:
174-500 MHz, (for other ranges, consult with us)
20 MHz window
Nominal power:
5W, 100% continuous cycle, delay in power-up
Number of channels: 16, digital PLL
Channel selector:
Digital encoder with delay
Modulation:
+/- 30 KHz 50 us or 75 us pre-emphasis
Output impedance: 50 Ohm
Spurious signal emission: < -60 dBc
RF output connector: Type N

Audio

Audio input:
1 Selectable balanced mic / line
Noise reduction system:
"Silenzo" compressor-limiter
Gain control: Front panel
Audio bandwidth:
50 Hz / 15 KHz +/- 0.5 dB
Distortion: < 0.3%
Audio connector: XLR3, Female
SNR: > 85 dB

Measurements

Digital VU meter
Audio peak indicator
Channel indicator display

General

ON/OFF switch
Mic / line switch
Audio gain adjustment
Power supply: external 12 VDC / 2A
Power supply connector: XLR4 H
Weight: 0.8 kg / 1.7 lb
Dimensions: 300x145x40 mm (1/3 rack)
11.7" x 5.65" x 1.56"
Machined aluminum case

Accessories included

- TR 70 power feed unit: 90 to 240 VAC 50/60 Hz -12VDC
- Antennas

AEQ LIVE 20 R

Reception

Reception system: True Diversity
Frequency range:
174-500 MHz, (for other ranges, consult with us)
typical window 5% operating frequency
Sensitivity: -112 dBm @ 12 dB SINAD
Number of channels: 16, digital PLL
Channel selector: Digital encoder with delay
Demodulation:
+/- 30 KHz 50 us or 75 us pre-emphasis
Input impedance: 50 Ohm
Spurious signal emission: < -2 nW
RF output connector: 2x BNC

Audio

Audio output:
600 Ohm balanced line (rear panel)
1/4" headphone jack (front panel)
Noise reduction system: "Silenzo" expander
Monitor and squelch control: Front panel
Audio bandwidth: 50 Hz / 15 KHz +/- 0.5 dB
Distortion: < 0.3%
Audio connector: XLR3 M
SNR: >100 dB

Measurements

RSSI indicator (range 90 dB)
Digital VU meter
Diversity A/B
Channel indicator display
Mute indicator

General

ON/OFF switch
Power supply: External 12 VDC / 0.25A
Power supply connector: XLR4 Female
Weight: 0.9 kg / 1.9 lb
Dimensions: 300x145x40 mm (1/3 rack)
11.7" x 5.65" x 1.56"
Machined aluminum case

Accessories included

- TR 70 power feed unit: 90 to 240 VAC 50/60 Hz -12VDC
- Antennas