

## 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