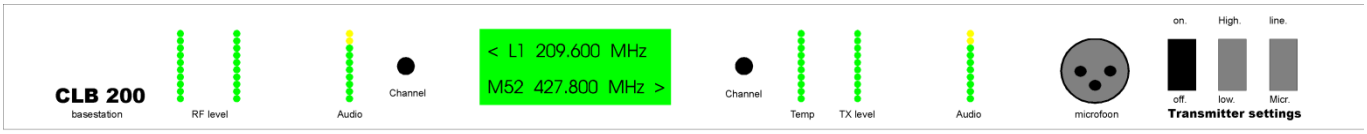
CLB 200 Base station

HF prints CLB reporter base station is just one of the models in a complete range of radio reporter systems.
CLxx product range includes a stereo reporter transmitter, diversity receivers and a complete base station, equipped with a diversity receiver and a talkback transmitter with excellent audio characteristics. (No more headaches from noisy handheld radios)

CLB Base station is available in two versions, receiving with a maximum useful bandwidth of 10MHz or a useful bandwidth of 60MHz (174-195MHz & 202-235MHz). Because of the increasing use of DAB frequencies we need more flexibility in frequencies we can use for a stable reporter signal.

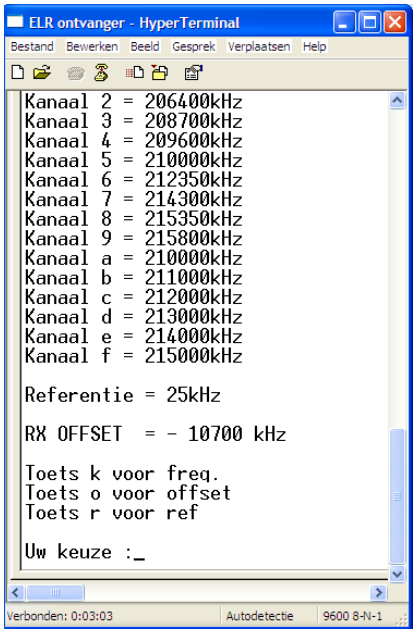
CLB reporter base station is very easy to use, all manual functions are located on the front panel including frequency readout on a bright LCD display. An optional remote control system is available, UHF receivers are available on request.

Drawing front basestation.



The back panel is equipped with 3 N female antenna connectors (BNC or TNC on request), 3 audio XLR-3 connectors (1 x Line in for UHF transmitter, 2 x Receiver line output), a sub D25 for remote control, AC inlet and optional XLR-4 male for 12V operation.

Frequency control for receiver and transmitter, we use a 16 channel switch on the front panel. All 16 frequencies can be reprogrammed through a standard RS232 protocol with Hyper terminal.



Because of the sublime sensitivity of the receiver in combination with a HIDYN audio compression, it is possible to keep a good steady signal over longer distances. Ericsson Broadcast noted that their reach was twice so far, compared with their own receiver.

In the picture an example of RS232 reprogramming with hyper terminal. All major setting can be changed, frequency but also its reference frequency. Hyper terminal is easy to use and can be found on most Microsoft Windows computers. If not, it is easy to find on Internet, and also available for Linux and Macintosh.

Specifications CLB 200 reporter base station

General:

Power supply	230V	40VA	12 - 15V 2,5A
Antenna connectors	N		Optional BNC or TNC
Audio connectors	XLR 3 male / female		
Housing	1 HE 19" depth 280mm		

Transmitter

Channels	16	front switchable
Frequency range	410 - 470 MHz	
Switching range	> 15 MHz	optional: 60 MHz
Frequency steps PLL	12.5 – 25 or 100 kHz	programmable
Channel switching	BCD switch	frequency & function on display
RF power led bar	10 led	
Temperature led bar	10 led	
Audio output led bar	10 led	30dB range
Range audio led bar	-24..+ 6dBm	
PTT	front	
HF + audio specifications		
RF output power	5 Watt	switchable from 0.5 - 1 Watt
Frequency deviation (standard)	3 kHz	
Input level audio	6 dBm	symmetric
De-emphases	750 us	
Distortion	0.5 %	typical
Signal to noise ratio transmitter	> 40 dB	(300 Hz – 3 kHz unweight)
Audio frequency range (standard)	200 Hz – 3 kHz	+/- 1 dB

Receiver

Channels	CLB 200	16		front switchable	
Frequency range		180 - 220 MHz			
Switching ranges		8 MHz		(Dual 2x 8 MHz)	
Frequency steps		25 – 100 kHz		programmable	
IF		10.7 MHz			
Antenna connector		N		Optional BNC or TNC	
Audio connectors		XLR-3		all audio outputs on back panel.	
Led bar		10 led	2x	RF	1 µV - 1000 µV
		10 led		audio	-24 / + 6dBm
Mute signaling		led		internal adjustable, external optional	
HF + audio specifications					
Sensitivity	20dB Sinad	< 1.0 µV		0.8 µV typ.	(1x receiver)
				1.2 µV typ.	(2x receivers)
Harmonic suppression		> 60 dB typ.			
Blocking 50 MHz		> 80 dB			
IF Bandwidth	mono	240 kHz		optional semi broadband.	
Output level audio		0 dBm		a-symmetric	non floating
		6 dBm		symmetric	non floating
De-emphases		50 us			
Distortion		0.3 %	typical	0.7 % max	
Audio 20 Hz – 15 kHz	mono	+/- 1 dB			
Mono signal to noise ratio versus HF strength		(Typical)		HD=HIDYN	
		2 µV	40 dB	70 dB	
		10 µV	54 dB	90 dB	
		100uV	>60 dB	90 dB	

HFPrints
wireless audio & videosystems

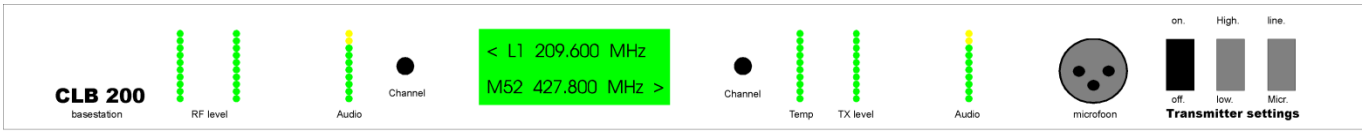
CLB/CLR 200 Wideband Base station

HF prints CLB wideband reporter base station is the newest model in our complete range of radio reporter systems. Because of the increasing use of DAB frequencies we need more flexibility in frequencies we can use for a stable reporter signal, that's why we introduced this new model with 60Mhz useful bandwidth.

CLxx product range includes a stereo reporter transmitter, diversity receivers and a complete base station, equipped with a diversity receiver and a talkback transmitter with excellent audio characteristics. (No more headaches from noisy handheld radios)

CLB wideband reporter base station is very easy to use, all manual functions are located on the front panel including frequency readout on a bright LCD display. An optional remote control is available, UHF receivers are available on request. A combination of VHF & UHF receivers is available with our CLR model.

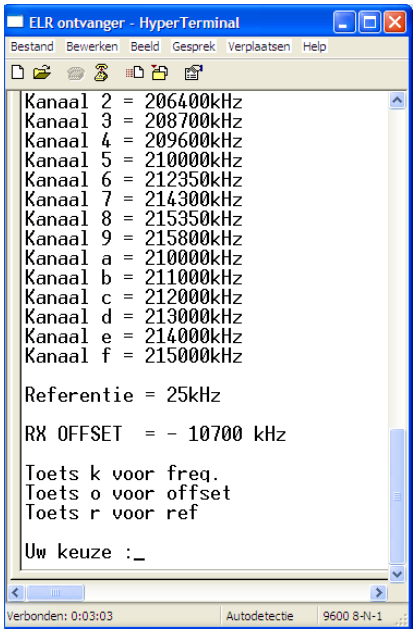
Drawing front panel base station



All major settings like frequency control, a choice between audio Line input or Microphone, PTT, high or low RF output power are all located on the front panel. Some of these controls can be overruled by our optional remote control.

The back panel is equipped with 3 N female antenna connectors (BNC or TNC on request), 3 audio XLR-3 connectors (1 x Line in for UHF transmitter, 2 x Receiver line output), a sub D25 for remote control, AC inlet and optional XLR-4 male for 12V operation.

Frequency control for receiver and transmitter, we use a 16 channel switch on the front panel. All 16 frequencies can be reprogrammed through a standard RS232 protocol with Hyper terminal.



Our new wideband receiver uses a double mid frequency circuit with sublime specifications. The specifications of this new receiver in combination with HIDYN audio compression, it is possible to keep a good steady signal over longer distances. Ericsson Broadcast noted that their reach was twice so far, compared with their own receiver.

In the picture an example of RS232 reprogramming with hyper terminal.
All major setting can be changed, frequency but also its reference frequency. Hyper terminal is easy to use and can be found on most Microsoft Windows computers. If not, it is easy to find on Internet, and also available for Linux and Macintosh.

Models:

CLB 200 1x wideband VHF diversity receiver, 16 channels, 16 channel UHF talk back transmitter

CLB 500 1x wideband UHF diversity receiver, 16 channels, 16 channel UHF talk back transmitter.

All systems measure 1HE 19” 280mm depth.

Specifications CLB 200 WB reporter base station

General:

Power supply		230V 40VA	12 - 15V 2,5A
Antenna connectors		N	optional BNC - TNC
Audio connectors		XLR 3 male / female	
Housing		1 HE 19" depth 280mm	

Transmitter:

Channels		16	front switchable
Frequency range		410 - 470 MHz	Optional: 174 – 230 or 556 – 606 MHz
Switching range		> 15 MHz	
Frequency steps PLL		12,5 kHz	
Channel switching		BCD switch	frequency & function on display
RF power led bar		10 led	
Temperature led bar		10 led	
Audio output led bar		10 led	30dB range
Range audio led bar		-24..+ 6dBm	
PTT		front	
HF + audio specifications			
RF output power		5 Watt	switchable from 0.5 - 1 Watt
Frequency deviation (standard)		3 kHz	
Input level audio		6 dBm	symmetric
De-emphases		750 us	
Distortion		0.5 %	typical
Signal to noise ratio transmitter		> 40 dB	(300 Hz – 3 kHz unweight)
Audio frequency range (standard)		200 Hz – 3 kHz	+/- 1 dB

Receiver

Channels	CLB 200WB	16	front switchable
Frequency range		VHF	174 - 230 MHz
		UHF	556 – 606 MHz
Switching ranges		> 50 MHz	
Frequency steps		25 – 100 kHz	programmable.
IF		1st IF 125 MHz	2nd IF 10,7 MHz
IF band width		180 kHz	(250 kHz steps possible)
Antenna connector		N 2x	optional BNC or TNC
Audio connectors		XLR	
Led bar		10 led	2x RF 1 uV - 1000 uV
		10 led	audio -24 / + 6dBm
Mute signaling		led	internal adjustable, external optional
HF + audio specifications			
Sensitivity	20dB Sinad	< 1,0 uV	typical < 0,7 uV
Harmonic suppression		> 70 dB typ.	
Blocking 50 MHz		> 80 dB	
IM 3th order		> 76 dB	typical > 80 dB
Input IP3		> 6 dBm	typical > 10 dBm
Output level audio		0 dBm	a-symmetric non floating
		6 dBm	symmetric non floating
De-emphases		50 us	
Distortion		0,5 % typical	0,7 % max

Audio 20 Hz – 15 kHz	mono	+/- 1 dB

Mono signal to noise ratio versus HF strength	(Typical)	HD=HIDYN
HF signal	2 uV 40 dB	70 dB
	10 uV 54 dB	90 dB
	100uV >60 dB	90 dB

Dimensions	484 x 280 x 44mm

Options free of charge:

12V DC inlet (XLR 4)
Remote control Sub D25
Extra audio output (2nd XLR)
Adjustable Mute on front (receiver)
RS 232 connection for reprogramming (jack 3,5mm)

HIDYN

HIDYN compression is compatible with HFTechniek, Sennheiser. Optional Hecom (+ € 50,00)

For use of this transmitter equipment, a license from the telecom authorities in your country is required. Check in your country were this office is located and make a request for this license. Also when you want to use the equipment abroad, you will have to request a license in the country were you are going to use the transmitter. Without this license, the use of the transmitter is not allowed in the EU.

If you want to use the talkback transmitter in a big event with multiple transmitter users, always check what frequencies can be used to prevent interference with other users.

This equipment complies to current ETSI regulations. Additional regulations, for example IATA (flying objects) have to be requested by the user at the local authorities.