

SPECIFICATIONS

FREQUENCY RANGE

CER2018 Base System	20 Hz – 18 GHz
Handheld Expansion Option	Adds 18 – 40 GHz
Remote Expansion Option 1	Adds 3 – 18 GHz
Remote Expansion Option 2	Adds 18 – 40 GHz
Remote Expansion Option 3	Adds 40 – 60 GHz
Remote Expansion Option 4	Adds 60 – 90 GHz
Remote Expansion Option 5	Adds 75 – 110 GHz

Remote expansion units plug into the main remote fixture and are available individually or as a full set. Frequency expansion subsystem can be located up to 500 feet from main system. Individual frequency expansion units accept dedicated antennas and are software selectable.

FREQUENCY STEP SIZE

20 Hz – 9 kHz	Fast Fourier Transform
9 kHz – 3 GHz	1/10 of IF Bandwidth
3 – 110 GHz	1/10 of IF Bandwidth > 10 kHz 4 kHz for IF Bandwidth = 10 kHz

TUNING SPEED

< 120 μ S

LEVEL MEASUREMENT ACCURACY

<9 kHz	2.5 dB
9 kHz – 3 GHz	1.0 dB
3 GHz – 18 GHz	2.0 dB
18 GHz – 110 GHz	3.0 dB

STABILITY OF INTERNAL FREQUENCY STANDARD

± 0.4 ppm over operating temperature range
± 0.5 ppm first year
± 2.0 ppm first ten years

SENSITIVITY FOR S/N = 0 dB in 1 Hz band (Equivalent Input Noise Density)

9 kHz – 18 GHz	< -166 dBm (-59 dBuV)
18 GHz – 40 GHz	< -164 dBm (-57 dBuV)
40 GHz – 110 GHz	< -161 dBm (-54 dBuV)

THIRD ORDER INPUT INTERCEPT POINT

9 kHz – 3 GHz	> -7 dBm (preamp off); > -20 dBm (preamp on)
3 GHz – 18 GHz	> -20 dBm
18 GHz – 110 GHz	> -24 dBm

DYNAMIC RANGE (1 dB COMPRESSION POINT/INPUT NOISE DENSITY)

9 kHz – 18 GHz	> 158 dB
18 GHz – 40 GHz	> 156 dB
40 GHz – 110 GHz	> 149 dB

IMAGE REJECTION

> 80 dB

IF REJECTION

> 80 dB

PRESELECTION

Fixed preselectors standard; notch and tracking preselectors optional

IF BANDWIDTHS

100 Hz, 200 Hz, 1 kHz, 9 kHz, 10 kHz	9 kHz – 30 MHz
10 kHz, 100 kHz, 120 kHz, 1 MHz	30 MHz – 110 GHz
10 MHz	1 GHz – 110 GHz

INPUT ATTENUATOR

20 Hz – 18 GHz	0 – 75 dB in 5 dB steps
18 – 110 GHz	0 dB or 30 dB (single step)

IF OUTPUTS (rear panel)

455 kHz, 21.4 MHz, 160 MHz

DEMODULATION

AM, FM

OPERATING SYSTEM & PROCESSOR

Microsoft Windows XP Professional, embedded single board computer

DATA STORAGE

Internal CD and 130 GB Hard Drive (HDD) (removable HDD available)

INTERFACES

4 USB ports (1 front panel, 3 rear panel); IEEE-488; serial printer port
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VIDEO OUTPUT

VGA (1024 x 768)

DIMENSIONS (W x H x D)

122.6 x 21.9 x 53.4 cm (19 x 8.75 x 21 in)
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WEIGHT

25 kg (55 lbs)

AC SUPPLY

90–250 V, 50–60 Hz
