

BELAR PRODUCT PRICE LIST – APRIL 2018



FM Monitoring Equipment

FMCS-1	\$7,295	All-in-One FM Modulation Monitor (Stereo, SCA, RDS)
FMCS-1L	\$4,595	All-in-One FM Modulation Monitor - Lite (For Remote Management)
FMHD-1	\$7,495	FM HD Radio Monitor
Option 01	\$695	Additional Decoder (Maximum of three additional decoders may be installed, but see below.)
Option 02	\$795	Decoder Expansion Board (Required when adding more than one additional decoder.)
Option 03	\$795	Automatic Delay Correction Software Module (Included for a limited time!)
FMHD-1L	\$4,795	FM HD Radio Monitor - Lite (For Remote Management)
Option 01	\$695	Additional Decoder (One additional decoder may be installed.)
Option 03	\$795	Automatic Delay Correction Software Module
FMMA-1	\$4,295	The Wizard Precision FM Digital Modulation Monitor and Analyzer
Option 01	\$895	Precision FM Demodulator with Calibrator (650 kHz IF Input)
Option 02	\$995	Down Converter/Sync AM Noise Detector for transmitter use
FMSA-1	\$4,795	FM Digital Stereo Modulation Monitor and Analyzer
FMM-2	\$3,195	FM Precision Modulation Monitor
Option 01	\$595	PWM-1 Peak Weighting Module
MP-9	\$895	Remote Meter Panel
FMS-2	\$4,795	FM Precision Stereo Modulation Monitor
MP-8	\$1,095	Combined Remote Meter Panel for FMM-2 & FMS-2
FMRR-4	\$2,795	Frequency Agile FM Rebroadcast Receiver
RDS-1	\$2,695	RDS/RBDS Monitor
RFA-4	\$2,995	Frequency Agile FM RF Amplifier
Option 01	\$195	FMMA-1 Wizard Interface Module
FMM-4A	\$2,495	FM Digital Frequency Monitor
Option 01	\$695	Eight Alarm Relay Card
SCMA-1	\$3,995	Precision Digital FM SCA Modulation Analyzer
DC-4	\$3,295	Frequency Agile Down Converter
Option 01	\$995	Wizard Kit - adds Sync AM Noise detector and Wizard Interface

AM Monitoring Equipment

AMMA-2	\$3,495	The Wizard Precision DSP Based AM Mod Monitor/Analyzer
MP-17	\$1,095	Remote Meter Panel
AMM-3A	\$3,095	AM Modulation Monitor (Limited Availability)
MP-7A	\$895	Remote Meter Panel
AMM-4	\$2,195	AM Digital Frequency Monitor
Option 01	\$695	Three Alarm Relay Card for AMM-4
AMDA-1	\$1,095	AM Distribution Amplifier
LP-1	\$550	Shielded Loop Antenna (Passive)
LP-1A	\$650	Shielded Loop Antenna (Active)
Option 01	\$145	External "Phantom" Power Supply for LP-1A

NOTE: Please Specify Receiving Band: Low (530-960 kHz), Mid (970-1340 kHz), High (1350-1710 kHz), Wide (530-1710 kHz)

NOTE 1: Please Specify Carrier Frequency to be Monitored or Specify Untuned for Wideband Reception.

NOTE 2: Must order 'Phantom' Power Supply or have alternative way to power the LP-1A (i.e. AMDA-1, RFA-2, existing power supply)

Please contact Belar for the availability of the following products: RFA-2, DSD-1A, TVM-100, MP-11, MP-15

All Belar products are manufactured in the United States of America.

Prices subject to change without prior notice.

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BELAR ELECTRONICS LABORATORY, INC.

1140 McDERMOTT DRIVE, SUITE 105 • WEST CHESTER, PA 19380-4043 USA

P.O. BOX 1689 • WEST CHESTER, PA 19380-0055 USA

Voice (610) 687-5550 • Fax (610) 687-2686

www.belar.com • sales@belar.com • sevice@belar.com • parts@belar.com

Where Accuracy Counts . . . Count on Belar!

BELAR PRODUCT ORDERING INFORMATION

Please Contact the factory with any questions. 610-687-5550 - sales@belar.com

FMHD-1

The **FMHD-1 FM HD Radio Monitor** is a state of the art wideband monitor designed specifically for the measurement and characterization of FM hybrid In-Band/On-Channel broadcast signals in the 88 MHz to 108 MHz band. It simultaneously decodes and meters the modulation of the analog FM carrier and the Main program audio carried by the IBOC digital sidebands (subcarrier sets). In its base configuration, the **FMHD-1** provides multiple high-quality audio output signals for the analog FM program and any one of the digital audio program channels available in an HD™ broadcast.

- Optional hardware permits simultaneous monitoring of up to four digital program channels.
 - **Option 01, Additional Decoder**
 - Order the Option 01, additional decoder, for simultaneous monitoring of more than one HD stream.
 - **Option 02, Decoder Expansion Board**
 - Order the Option 02, decoder expansion board, for simultaneous monitoring of more than two HD streams (up to 4)
 - **Option 03, ADC - Automatic Delay Correction Software Module**
 - Order the Option 03, ADC - Automatic Delay Correction Software Module to eliminate HD Radio diversity delay errors. The software consistently adjusts for time alignment, eliminating the delay between HD and analog FM programming to ensure a pleasant listening experience.
- **Example Ordering Configurations for the FMHD-1**
 - **For simultaneous monitoring of-**
 - (2) **HD streams, order;**
 - (1) FMHD-1
 - (1) Option 01
 - (3) **HD streams, order;**
 - (1) FMHD-1
 - (2) Option 01's
 - (1) Option 02
 - (4) **HD streams, order;**
 - (1) FMHD-1
 - (3) Option 01's
 - (1) Option 02

FMHD-1L

The **FMHD-1L FM HD Radio Monitor - Lite** is for remote management, it is one rack unit and has no display or audio outputs. The **FMHD-1L** can be accessed and controlled remotely using the **Wizard for Windows** software.

- Optional hardware permits simultaneous monitoring of up to two digital program channels.
 - **Option 01, Additional Decoder**
 - Order the Option 01, additional decoder, for simultaneous monitoring of two HD streams.
 - **Option 03, ADC - Automatic Delay Correction Software Module**
 - Order the Option 03, ADC - Automatic Delay Correction Software Module to eliminate HD Radio diversity delay errors. The software consistently adjusts for time alignment, eliminating the delay between HD and analog FM programming to ensure a pleasant listening experience.

LP-1, Shielded Loop Antenna (Passive)

- Please Specify Receiving Band
 - Low (530-960 kHz)
 - Mid (970-1340 kHz)
 - High (1350-1710 kHz)
 - Wide (530-1710 kHz)

LP-1A, Shielded Loop Antenna (Active)

- Please Specify Carrier Frequency to be Monitored (or) Specify Untuned for Wideband Reception (530-1710 kHz)
- Must order the Optional 'Phantom' Power Supply or have an alternative way to power the **LP-1A** (i.e. **AMDA-1**, **RFA-2**, or existing power supply)

AMMA-2 Wizard

- **AMMA-2**, Comes complete with Demod. Standard input impedance is 50Ω, if 500Ω input impedance is needed, specify when ordering.
- **MP-17**, Analog Meter Panel, for full-time analog display of positive, negative modulation and carrier level.

FMMA-1 Wizard

- Order the **Option 01**, When source of wideband composite, such as that from a monitor, is not available.
- Order the **Option 02**, For use at transmitter.
- The **DC-4**, may be substituted for **Option 02** when frequency agility is required.
- Order the **RFA-4**, For use at studio or other off-air application.

*Note that the **FMSA-1** is required for stereo decoding and measurements in either case.*

FMM-2

- Requires you to Specify Carrier Frequency

If the following equipment is ordered separately, what will it be used with?

FMSA-1

FMS-2

RFA-4

PWM-1 (Serial # of **FMM-2**)

FOR INTERNATIONAL ORDERS: In addition to the above information, we need de-emphasis (where applicable) and line voltage.
END USER INFORMATION (CALL LETTERS, COMPANY, Etc. & LOCATION) IS REQUIRED WITH ALL ORDERS