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**C A T V**  
**RETURN BAND**  
**ALIGNMENT**  
**S Y S T E M**

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MODEL 6103  
Head End Cable  
TEst Return  
"HECTER"

MODEL 6106  
Carrier Generator/  
Telemetry Receiver  
Field Unit  
"HECTER'S PUP"

# CATV

## Models 6103 / 6106

Return Band Alignment System for CATV. This system consists of a headend signal level receiver/telemetry transmitter unit and a small, field portable, dual-carrier signal generator/telemetry receiver unit.

### Application:

- Enables a single technician to perform return band alignment

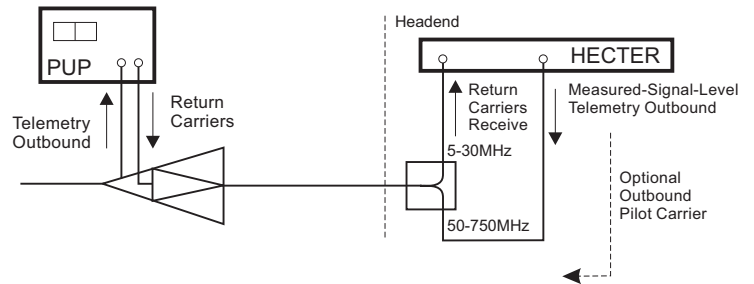
### Features:

#### Model 6103 HECTER

- Two inbound signal level receivers
- Telemetry outbound transmitter
- Reports actual signal level of both carriers, in dBmV, realtime to the field unit

#### Model 6106 HECTER'S PUP

- Two carrier return generator
- Telemetry receiver with dual digital readout of amplitudes received at the headend
- Compact, rugged, fully portable



## SPECIFICATIONS - RETURN BAND ALIGNMENT SYSTEM

### MODEL 6106 HECTER'S PUP

#### INBOUND CARRIER GENERATOR:

Frequency (selected at time of order)... Standard 6 MHz and 29 MHz  
 Optional Frequency range..... 5 - 174 MHz  
 RF output..... Individually adjustable, +36 to +56 dBmV  
 Amplitude stability..... 0.5 dB /setting  
 Spectral purity..... >60 dBc  
 Residual hum..... ≤0.1%  
 Frequency accuracy..... ≥.01% or 1kHz

#### TELEMETRY RECEIVER:

Frequency (selected at time of order)... 52.0 MHz standard  
 Optional frequency range..... 50 to 500 MHz  
 Receive amplitude range..... -20 to +40 dBmV

#### DUAL LCD READOUT:

Display..... Simultaneously displays the headend signal level reading of the inbound carriers at the headend. Update rate ≈ five times per second, displays battery charge information upon turn-on, gives automatic Lo battery information while in use.

#### ENCLOSURE:

Temperature range..... Operating -17° C to 50° C  
 Power..... Ni-cad battery pack. Rechargeable from wall transformer  
 Battery life..... >10 hours continuous use  
 Size..... 4"H x 10"W x 7.25"D  
 Weight..... 4.5 LBs (2.1 Kg)

Specifications subject to change without notice.

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### MODEL 6103 HECTER

#### DUAL INBOUND RECEIVERS:

Frequency (selected at time of order)..... Standard 6 MHz and 29 MHz  
 Optional Frequency range..... 5 - 174 MHz  
 Level Range..... -10 to +30 dBmV  
 Level accuracy..... ±0.5 dB @ 25° C  
 Level resolution..... 0.1 dB

#### OUTBOUND TELEMETRY CARRIER:

Frequency (selected at time of order)..... Standard 52.0 MHz  
 Optional frequency range..... 50 to 500 MHz  
 RF output level..... +30 to +50 dBmV  
 CW spurious and harmonics..... All >60 dBc

#### ENCLOSURE:

Temperature range..... Operating 0° C to 45° C  
 Power..... 110/120 VAC 60 Hz  
 Size..... 19" Rack Mount, 1¼"H, 9"D  
 Weight..... 7 LBs (3.2 Kg)

Specifications subject to change without notice.

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