



## MT logger ELOG-MT

**5CH(E-field 2CH, Mag 3CH) 24bit AD**  
**2400Hz/150Hz/15Hz rec.(PHX mode) or 1024Hz/32Hz rec.(ADU mode)**  
**with GPS timestamp**

Usable magnetic field sensor

Induction sensor (Phoenix type)

Fluxgate sensor (Bardington type)

Magnetic field sensor is not included.

Compact and light weight

Size: 270mm×246mm×174mm      Weight: 3.2kg

Two sampling mode

PHX mode: 2400Hz/150Hz/15Hz

ADU mode: 1024Hz/32Hz

Timestamp by GPS      Time accuracy: <math>\pm 100\text{nsec}</math>

Low power      0.31A@12.0V 3.7W with three Phoenix induction sensor

FIR digital filter      High/Mid./Low(PHX) or High/Low(ADU)

E-field Input range       $\pm 2.5\text{V/FS}$  differential input

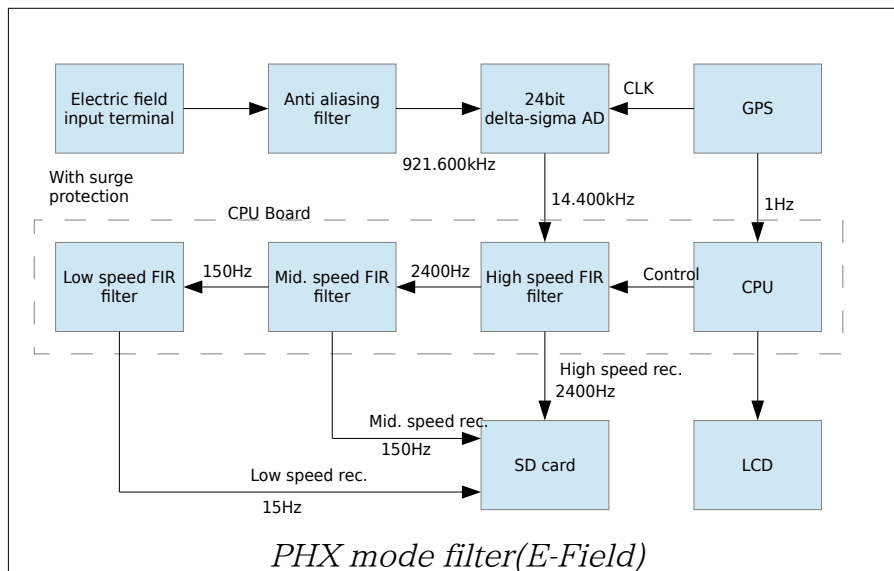
Mag field Input range       $\pm 10\text{V/FS}$

SD card recording      128GBmax

Timing calibration output      33mVpp 1Hz

Price ¥ 1,290,000-(Japanese yen without tax)





●Electric field input

Num.: 2CH  
 Type: Differential  
 Range:  $\pm 2.5V$   
 Input Con.: Johnson Terminal  
 Input impedance 200G $\Omega$

●Mag input

Sensor: Induction or Fluxgate  
 Num.: 3CH  
 Range:  $\pm 10V$   
 Input Con.: MIL18P female(Phoenix compatible)  
 Amp Gain: x1,x10,x20,x30,x40  
 Offset cancel for FG:  $\pm 10V$

●Surge protection

Input Gas tube surge arrester  
 Amp. Semiconductor surge absorber

●Analog anti aliasing filter

Type: Butterworth LPF Order: 2nd 200Hz

●AD converter

Type: Delta sigma Res.: 24bit  
 Sampling: PHX mode 14.4kHz  
 ADU mode 14.336kHz

AD drive clock is syncing with GPS clock

●Digital filter common spec.

Type: FIR LPF Butterworth  
 Order(tap num.): 512 max.  
 Coefficient file in SD card

●Digital filter @ADU mode

High speed filter  
 Input: 14.336kHz Output: 1024Hz Dec.: 14  
 Low speed filter  
 Input: 1024Hz Output: 32Hz Dec.: 32

●Digital filter @PHX mode

High speed filter  
 Input: 14.4kHz Output: 2400Hz Dec.: 6  
 Middle speed filter  
 Input: 2400Hz Output: 150Hz Dec.: 16  
 Low speed filter  
 Input: 150Hz Output: 15Hz Dec.: 10

●GPS clock

Time accuracy:  $< \pm 100nsec$   
 Antenna cable len.: 2.5m  
 Antenna shape: Patch

●Data recording frequency

PHX mode: High 2400Hz/Mid. 150Hz/Low 15Hz  
 ADU mode: High 1024Hz/Low 32Hz

●SD card

Spec.: SD/SDHC/SDXC  
 Size: 128GB max  
 File system: FAT16/FAT32/exFAT

●Timing calibration output

Signal: Square 33mVpp 1Hz

●Case

ABS water proof case  
 Size: 270mm $\times$ 246mm $\times$ 174mm  
 Weight: 3.2kg

●LCD

Size 20char x 4lines

●Power supply

Voltage: DC9.3V $\sim$ 16V  
 Power consumption: @12.0V  
 0.23A 2.8W without mag. sensor  
 0.31A 3.7W with three Phoenix induction sensor

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