

EVR-1

SEISMIC EVENT RECORDER

- Accurate GPS Location (sub 3 meters)
- UTC Time Stamp, accurate within .000001 microseconds
- Data is stored on a removable USB Flash Drive in a Comma-delimited format (.csv) file
- Choose number of stacks "hits" for each station
- Record seismic events in either Automatic or Manual Mode (choose how many seconds before rearming)
- Shot Location Verification: Can be used with pre-surveyed points to verify you source is in the correct location.



The EVR-1 is designed to be used with an external hammer switch to capture each "hit" from your seismic energy source. The user programs the EVR-1 with the Line Number, Station Number and the number of "Hits" the user want to record for each station. The data is then stored on a removable USB Flash Drive in a Comma-delimited format (.csv) file which allows the user to easily tie the GPS location and UTC Time with their Seismic recording system and Recorded Seismic Data.



Specifications

PHYSICAL:

Weight: 2.8lb (1.25kg)
Dimensions: 9x7x4in (23x18x10cm)
Operational Temperature: -30c / +60c
Battery: 9.6 Vt (NiMH) 2000mAh

ELECTRONICS:

GPS Antenna: 28db
UTC TIME Resolution: 1 ppm 10 ns (Typical)
<3.0 meters @ 50%CEP
+/-10us, GPS Discipline

Using the data recorded:

The data recorder on the USB Flash Drive will come Comma-delimited format (.csv) file. The data will resemble the following image when opened with “Excel”:

	A	B	C	D	E	F	G	H
1	1111	1001	1	2020-01-31	16:02:13.653080	35.579174	-97.5253	
2	1111	1001	2	2020-01-31	16:02:16.650424	35.579174	-97.5253	
3	1111	1001	3	2020-01-31	16:02:20.287644	35.579174	-97.5253	
4	1111	1001	4	2020-01-31	16:02:23.505924	35.579174	-97.5253	
5	1111	1002	1	2020-01-31	16:02:36.812840	35.579189	-97.5253	
6	1111	1002	2	2020-01-31	16:02:43.673104	35.579189	-97.5253	
7	1111	1002	3	2020-01-31	16:02:49.163020	35.579189	-97.5253	
8	1111	1002	4	2020-01-31	16:02:53.086552	35.579189	-97.5253	
9	2222	1001	1	2020-01-31	16:06:13.290428	35.579055	-97.5254	
10	2222	1001	2	2020-01-31	16:06:17.636872	35.579055	-97.5254	
11	2222	1001	3	2020-01-31	16:06:19.727712	35.579055	-97.5254	
12	2222	1001	4	2020-01-31	16:06:21.187884	35.579055	-97.5254	
13	2222	1002	1	2020-01-31	16:07:31.114880	35.579074	-97.5254	
14	2222	1002	2	2020-01-31	16:07:36.461900	35.579074	-97.5254	
15	2222	1002	3	2020-01-31	16:07:38.753488	35.579074	-97.5254	
16	2222	1002	4	2020-01-31	16:07:40.673532	35.579074	-97.5254	
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- Column A: Line Number
- Column B: Station Number
- Column C: Number of EP's (stacks/hits)
- Column D: UTC Date
- Column E: UTC Time
- Column F: Latitude
- Column G: Longitude

The data will resemble the following image when opened with the program “Notepad”:

```

20200131 - Notepad
File Edit Format View Help
1111, 1001, 1, 2020-01-31, 16:02:13.653080, 35.579174, -97.525337
1111, 1001, 2, 2020-01-31, 16:02:16.650424, 35.579174, -97.525337
1111, 1001, 3, 2020-01-31, 16:02:20.287644, 35.579174, -97.525337
1111, 1001, 4, 2020-01-31, 16:02:23.505924, 35.579174, -97.525337
1111, 1002, 1, 2020-01-31, 16:02:36.812840, 35.579189, -97.525344
1111, 1002, 2, 2020-01-31, 16:02:43.673104, 35.579189, -97.525344
1111, 1002, 3, 2020-01-31, 16:02:49.163020, 35.579189, -97.525344
1111, 1002, 4, 2020-01-31, 16:02:53.086552, 35.579189, -97.525344
2222, 1001, 1, 2020-01-31, 16:06:13.290428, 35.579055, -97.525367
2222, 1001, 2, 2020-01-31, 16:06:17.636872, 35.579055, -97.525367
2222, 1001, 3, 2020-01-31, 16:06:19.727712, 35.579055, -97.525367
2222, 1001, 4, 2020-01-31, 16:06:21.187884, 35.579055, -97.525367
2222, 1002, 1, 2020-01-31, 16:07:31.114880, 35.579074, -97.525360
2222, 1002, 2, 2020-01-31, 16:07:36.461900, 35.579074, -97.525360
2222, 1002, 3, 2020-01-31, 16:07:38.753488, 35.579074, -97.525360
2222, 1002, 4, 2020-01-31, 16:07:40.673532, 35.579074, -97.525360

```

The user then can tie the GPS location and UTC Time with their Seismic recording system and Recorded Seismic Data. For further information please contact R.T. Clark Companies.

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