

RF Capture

Real Time RF Record / Reproduction System

4420A

General

This device can record an RF signal in the fields and the recorded data can be taken out. Then, they can be reproduced in factories or laboratories. Therefore, operations of receivers can be confirmed under the receiving condition that is as same as the fields.(*1)



Features

- The device is designed as compact size and light weight and equips the record part and the reproduction part. (A PC for the control and SSD or HDD in RAID configuration are needed other than the main body.)
- This device can be used under DC +12 V when using the DC-DC adaptor of the option. (Prepare external batteries separately.)
- This device corresponds to the frequency in the range from 450 kHz to 3300 MHz. (The frequency in the range from 50kHz to 30MHz is possible by carrying the option.)
- The frequency band can be chosen from "8 MHz", "24 MHz", "40 MHz" or "54 MHz". (In the cases of "40 MHz" and "54 MHz", only the half rate mode can be used.)(*2)
- If the 24TByte HDD of the option is used, the recording time of the 8 MHz band is 144 hours.
- This device is controlled from the PC. The user interface provides excellent operability and visibility.
- The spectrum can be displayed. Therefore, the signal can be recorded while the spectrum is confirmed.
- A Low Noise Amplifier is equipped for the RF input. Therefore, this device corresponds to the weak electric field.
- The Auto Cal function that sets the level at the recording automatically when the RF signal is captured is equipped.
- The time and the location information can be buried into the recorded data, when using the GPS antenna of the option. Therefore, the recording route and the signal level at the points can be displayed on the map, if the dedicated software is used.
- This device can share existing data captured by existing devices. Therefore, old data can be used effectively.
- This device sets the frequency and the level at the recording automatically when reproducing the data.
- This device equips the inversion function of the polarity at the reproduction.
- This device can reproduce data of A74 standard in ATSC.

Configuration

Dimensions	W:210 x H:61 x D:260 [mm] (Excluding projections)
Weight	Approximately 3.0 kg
Power Source	AC90V to AC240V Less than 50W (When dedicated AC adaptor is used)

Option

Model Number	Contents of Option
4420U-F01	Frequency in the range from 50kHz to 30MHz (The band is at the record and reproduction by package.)
4420U-H24	24TByte HDD (USB3.1 Interface)
4420U-P01	DC-DC Adaptor (Input range :+10 to 14 V)
4420U-G01	GPS Antenna

(*1) This device is manufactured for analysis of high frequency signals, quality tests for receivers and so on.
Do not use this device for other usage. In addition, do not use this device for the copy of contents.

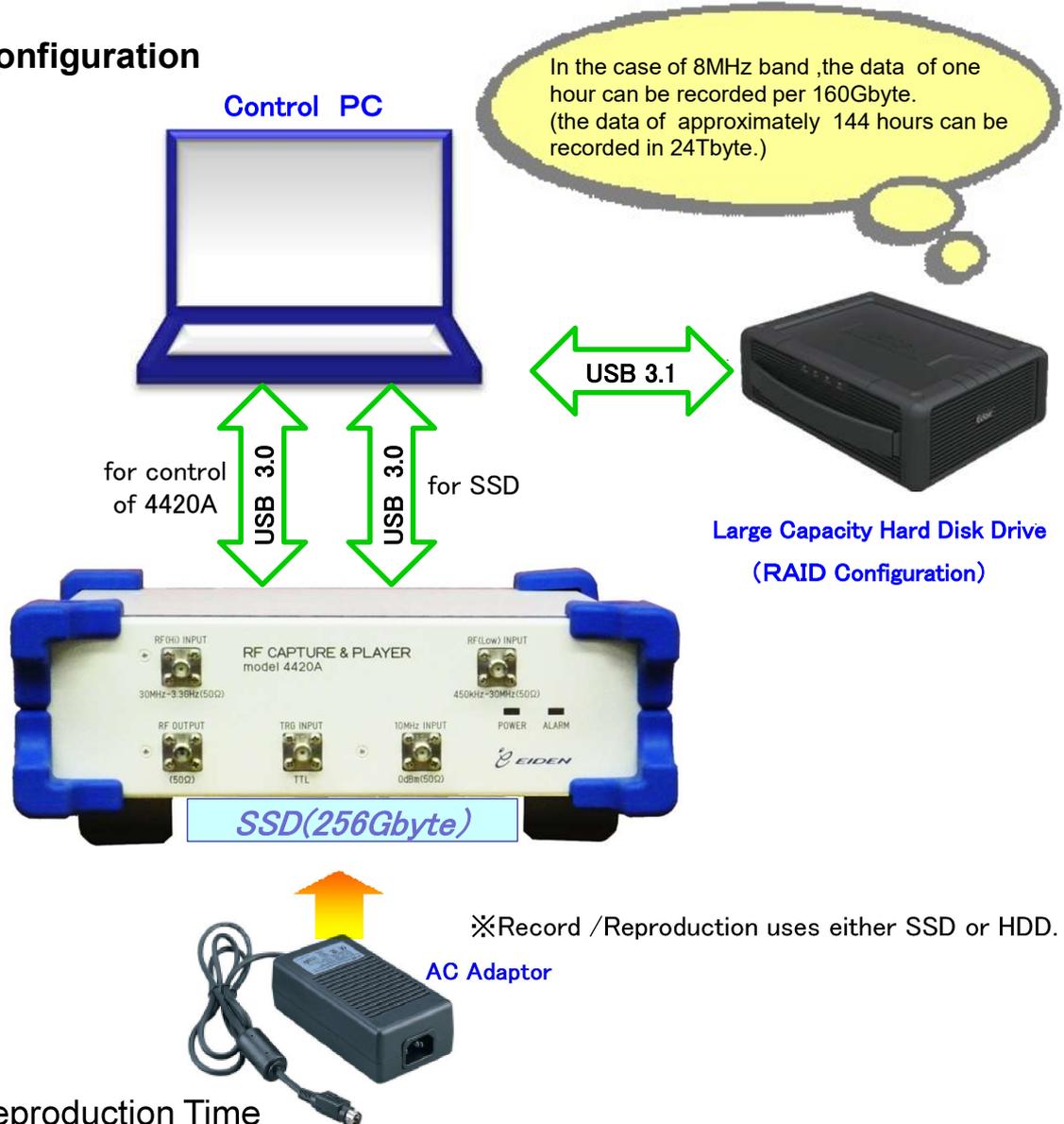
(*2) The half rate mode is the mode that the 16 bit data of the normal use are substituted for 8 bit data.

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System Configuration



Record/ Reproduction Time

	Record/Reproduction Band			
	8MHz	24MHz	40MHz (*1)	54MHz (*1)
Standard model (SSD: 256Gbyte)	90minutes	30minutes	40minutes	30minutes
4420U-H24 HDD (24Tbyte) (RAID Configuration)	144hours	48hours	64hours	48hours

(*1) "40 MHz" and "54 MHz" use only the half rate mode.

The half rate mode is the mode that the numbers of the bits for the data are changed from 16-bit to 8-bit and that the recording time is increased twofold.