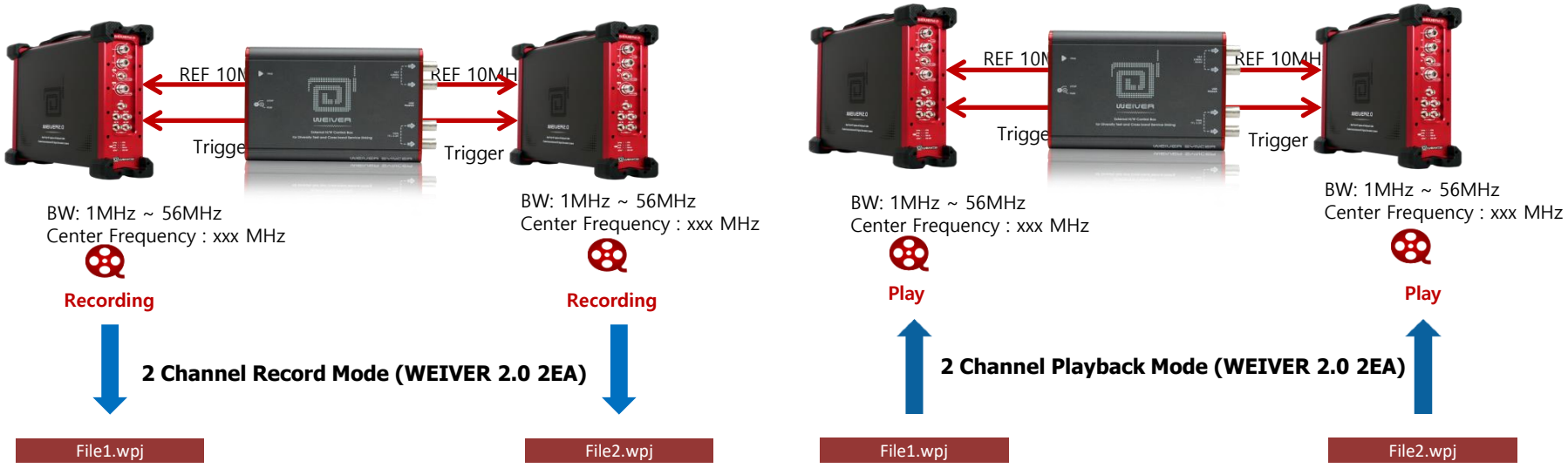
2020

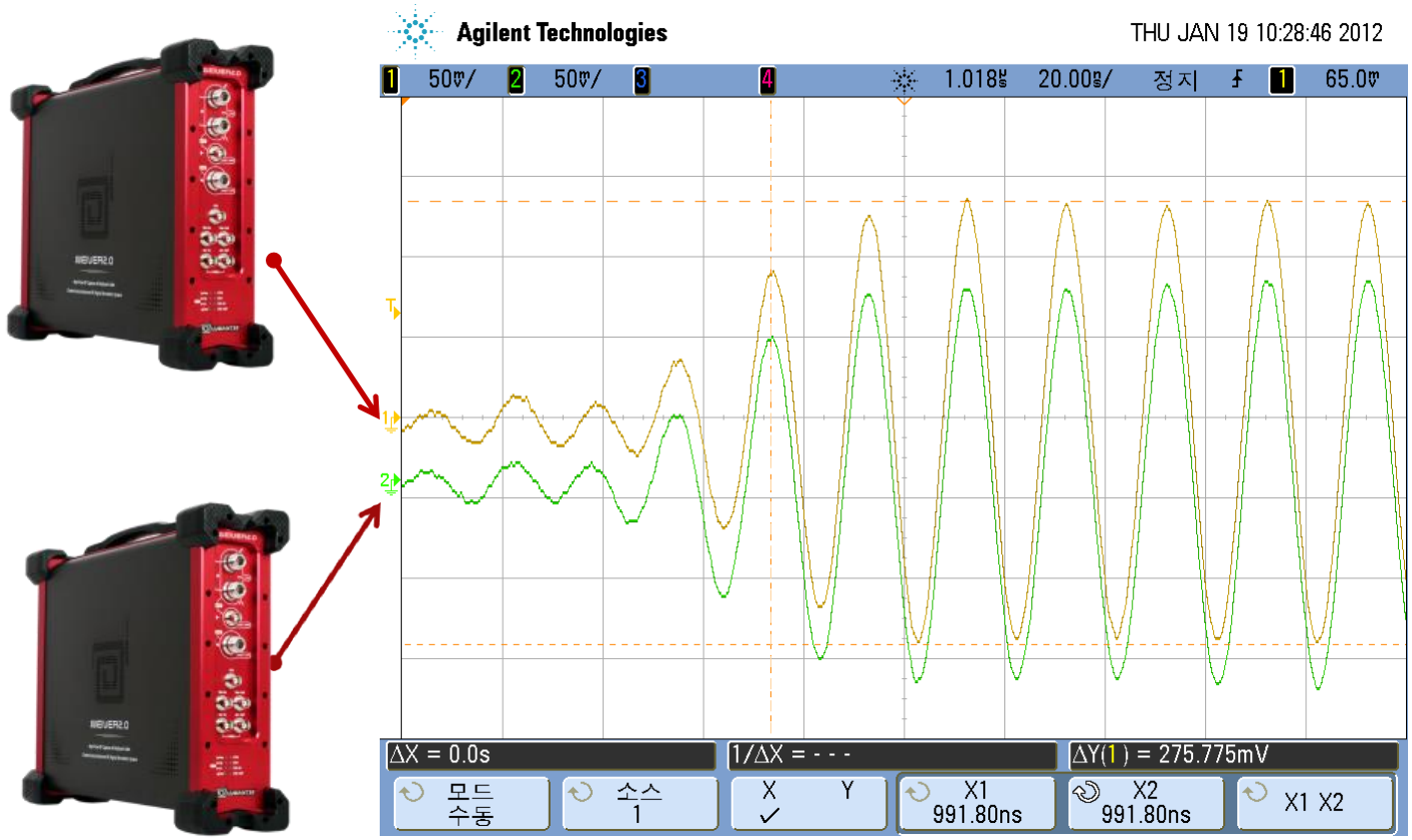
WEIVER 2.0 :RF Signal Recorder & Playback System Multi-CH

Weiver 2.0 - 2 Channel Setting Overview

- If you would like to operate two or more Weiver 2.0 systems simultaneously, use Syncer for record & Pla yback (Max : 4 x Weiver 2.0)
- CASE 1 : In case of using laptops, you need a Syncer and Network sw hub.
- CASE 2 : In case of connecting Weiver 2.0 systems to monitors, you only need a Syncer.

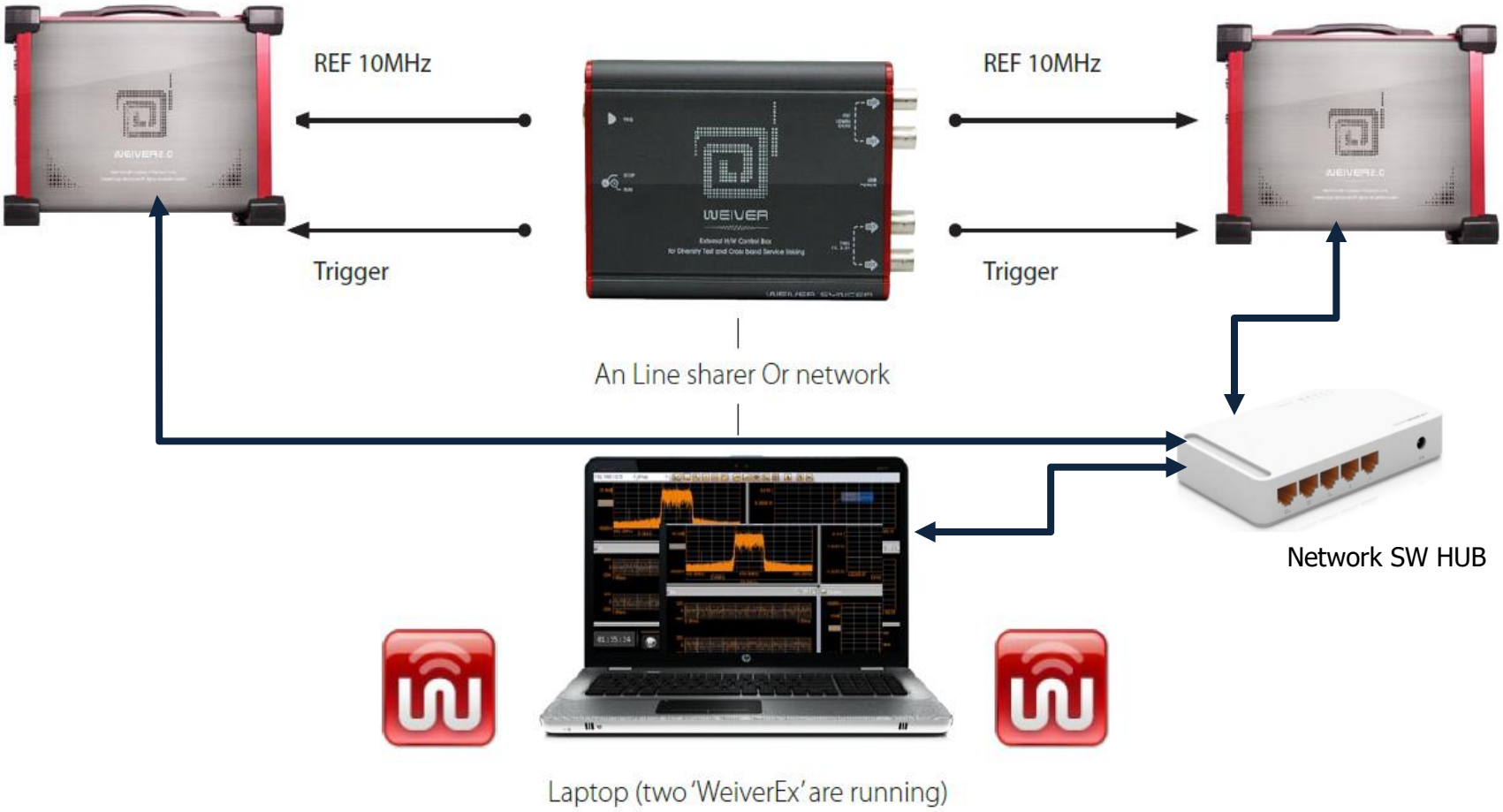


2 Channel Play Mode – Test Result



2 channel Record & Playback on Weiver 2.0

CASE 1: Configuration when you use laptops for operating Weiver 2.0 system.
→ In case of using laptops(In case of recording outside on a car), use Network SW HUB for one laptop.
→ Set both Weiver 2.0 systems and laptops to Automatic IP01(DHCP) and run the WeiverEX Program.



2 channel Record & Playback on Weiver 2.0

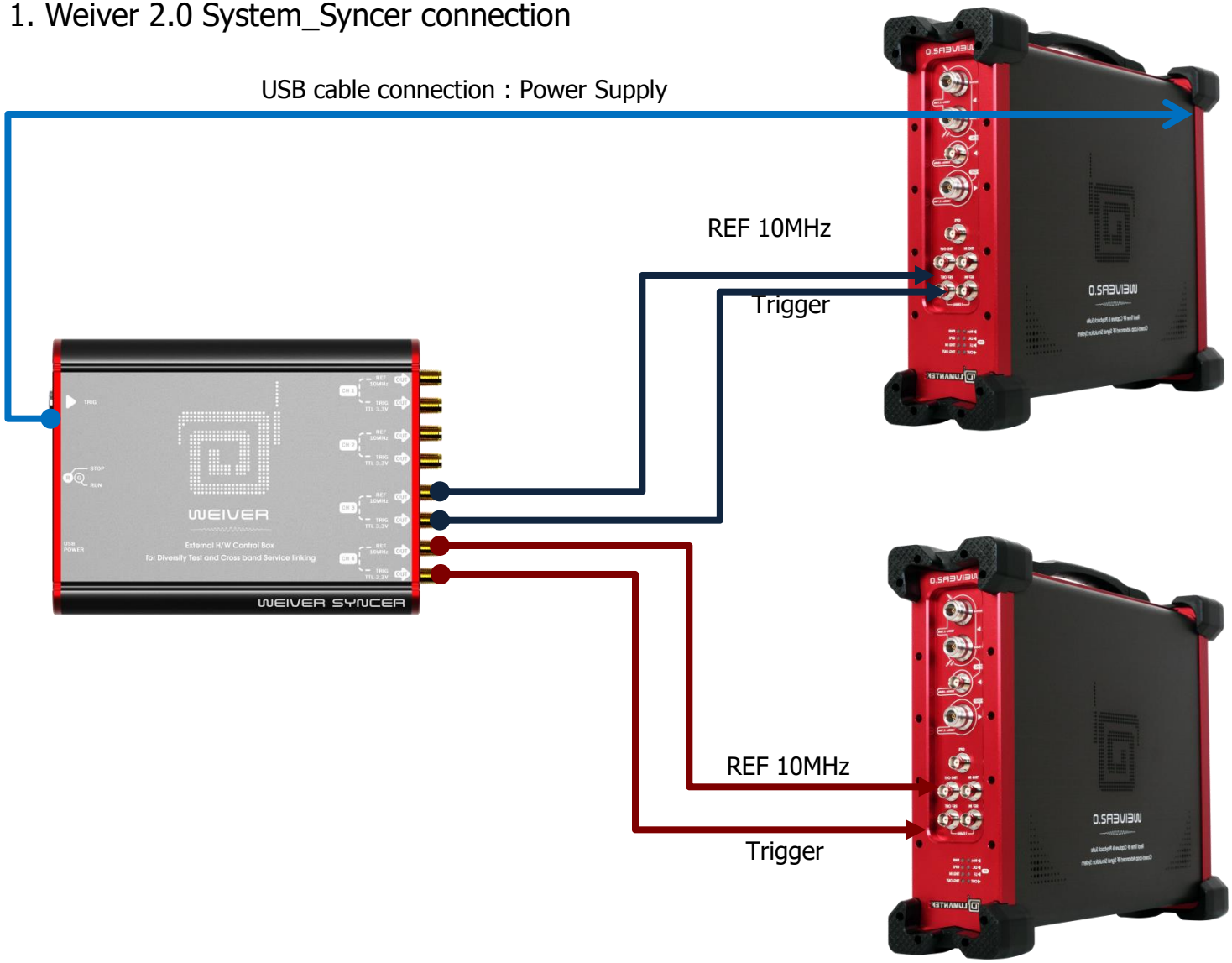
CASE 2 : Configuration when you connect WEIVER 2.0s to monitors respectively.
→ You need a monitor, keyboard, and mouse as many as the number of the channels(Weiver2.0 systems).
→ Run the WeiverEX Program after connecting monitors, keyboards, and mice to respective Weiver 2.0 systems.

Connecting with display and Keyboad
(WeiverEx is running at the WEIVER)

Connecting with display and Keyboad
(WeiverEx is running at the WEIVER)

2 channel Record & Playback on Weiver 2.0

1. Weiver 2.0 System_Syncer connection



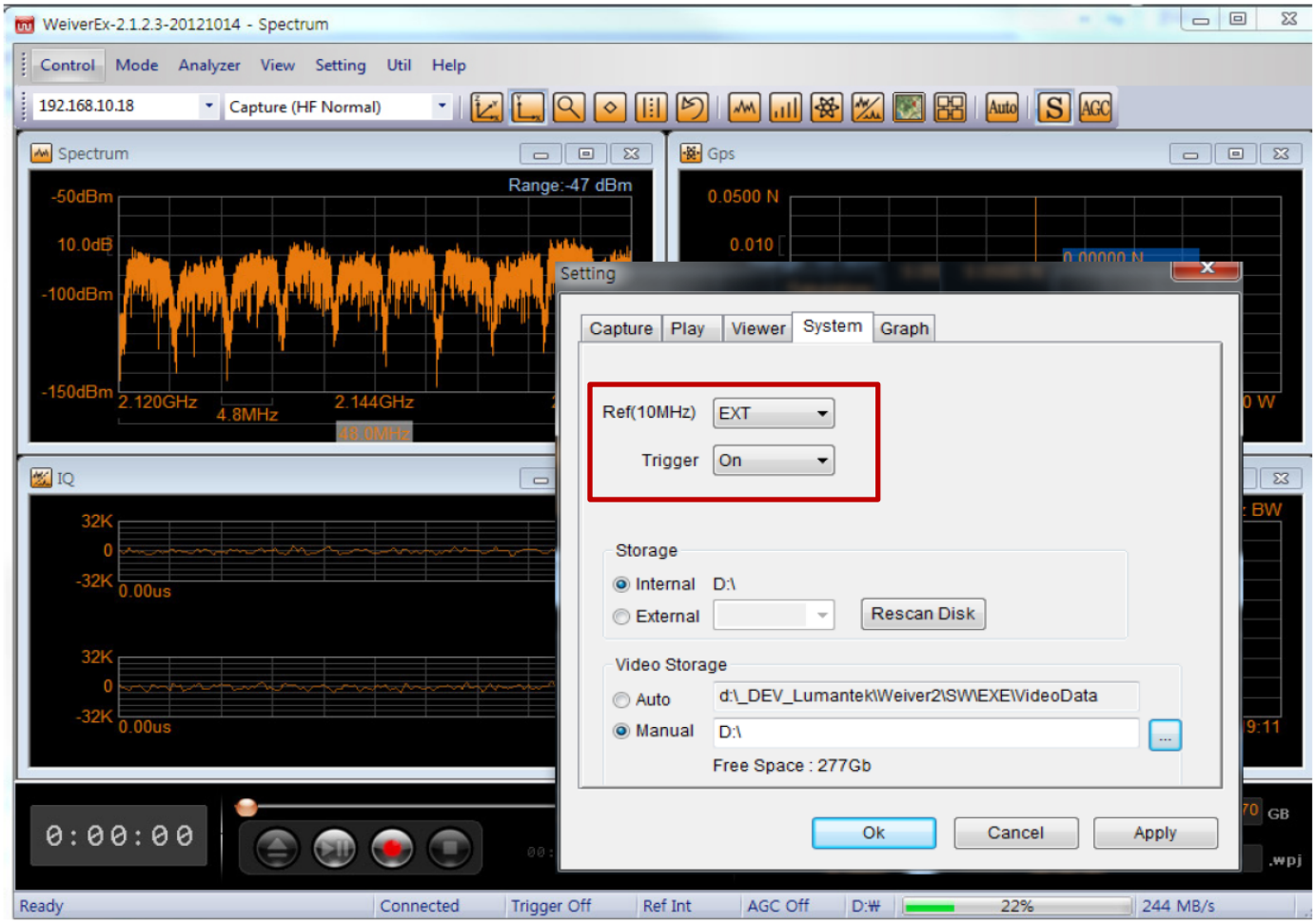
2 channel Record & Playback on Weiver 2.0

2. Move on to WeiverEx Program after you link Weiver 2.0s with a Syncer.

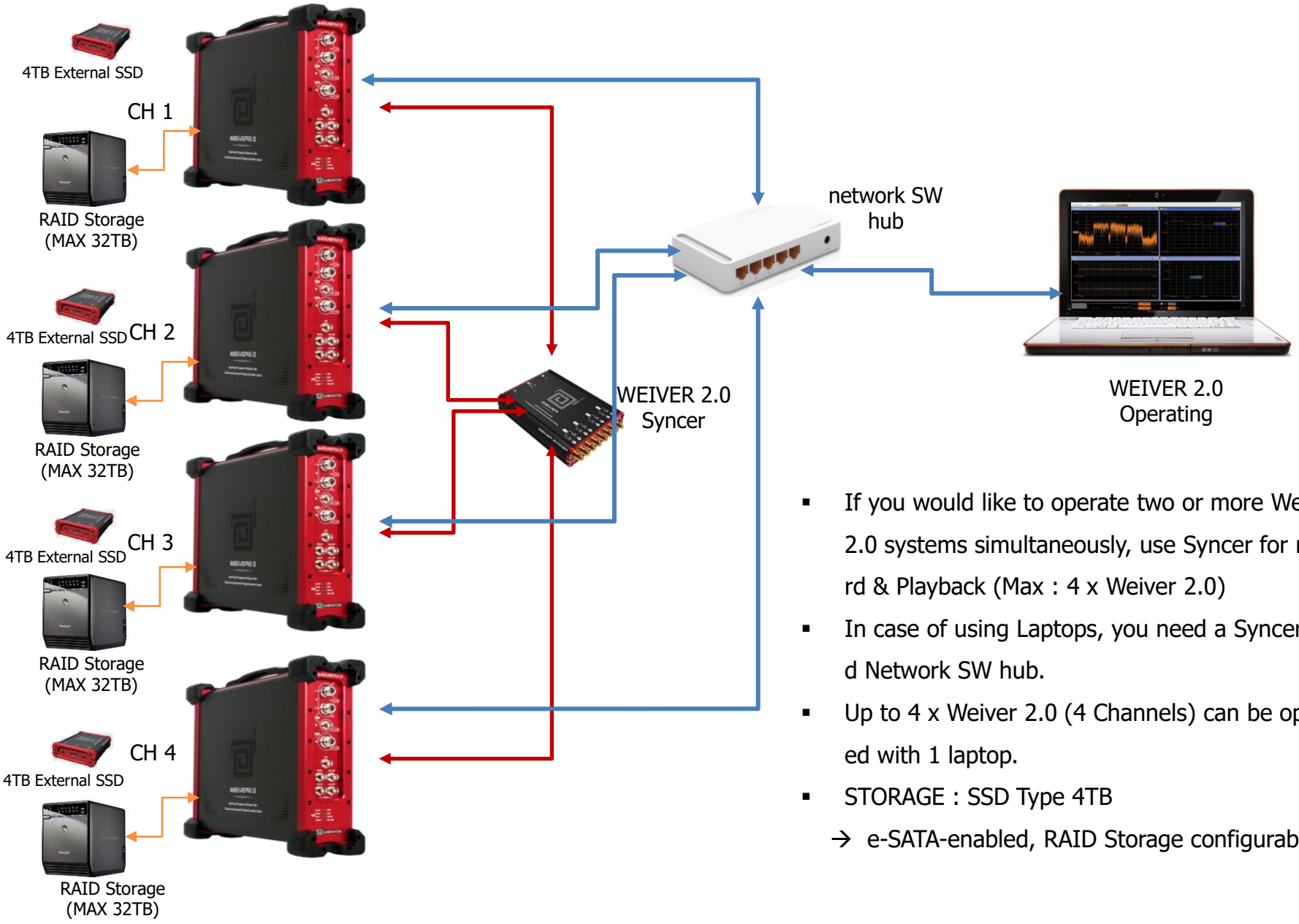
→ Click 'Setting' at the top of the menu

→ Set 'Ref' (10MHz) to 'EXT' (Default : INT)

→ Set 'Trigger' to 'On' (Default : Off)



Weiver 2.0 System : Multi-Channel Configuration



- If you would like to operate two or more Weiver 2.0 systems simultaneously, use Syncer for record & Playback (Max : 4 x Weiver 2.0)
- In case of using Laptops, you need a Syncer and Network SW hub.
- Up to 4 x Weiver 2.0 (4 Channels) can be operated with 1 laptop.
- STORAGE : SSD Type 4TB

  → e-SATA-enabled, RAID Storage configurable

WEIVER 2.0 System Specifications

LUMANTEK

Specifications Capture mode

Frequency

- **Frequency band** **0.1MHz ~ 2.7 GHz**
- **Real-time bandwidth** **24MHz, 48 MHz, 56 MHz (1~56 MHz Adjustable by 1Hz step)**
- Frequency resolution 1Hz
- Resolution bandwidth 3 KHz, 5 KHz, 10 KHz, 20 KHz (Arbitrary BW in 1 Hz step- Patent Protect)
- Temperature stability ±20 ppb
- Aging (annually) ±50 ppb

Spectral Purity (HF)

- Phase Noise @1KHz offset, 1 GHz ≤ -95 dBc/Hz
- Phase Noise @1KHz offset, 2.7GHz ≤ -90 dBc/Hz
- Phase Noise @10KHz offset, 1GHz ≤ -100 dBc/Hz
- Phase Noise @10KHz offset, 2.7Ghz ≤ -95 dBc/Hz

Noise Figure (1GHz)

- HF < 7dB (Gain 50 dB)
- HF_Low Noise < 3dB (Gain 50 dB)
- LF < 7dB (Gain 50 dB)

Amplitude

- Input level accuracy ±1dB
- **Input dynamic range (CW tone)** **-130dBm ~ 0 dBm**
- **Gain range** **-15dB ~ +50dB**
- Input level resolution 0.01dB
- Max. DC input ±25 VDC

RF In

- 50ohm, N-type female, DC-coupled

IF Band

- **Resolution** **16-Bit**
- Sampling rate 2.5 MS/S~140MS/S (Adjustable)
- ADC Sample Clock 200 MHz
- Frequency 150MHz

Storage

- Internal (def.) 4 TB SSD
- Storage time (depending on BW)
  - BW 24M 60 minutes/ 512 GB
- External (opt.) 4 TB SSD, e-SATA 지원 RAID Storage 구성가능

Calibration

- 1 year

Environment

- Operating temperature 0 ~ +50°C
- Relative humidity 90%
- Storage temperature -20 ~ +70°C

WEIVER 2.0 System Specifications

Specifications Playback mode

Frequency

•**Frequency band**	**0.1MHz ~ 2.7 GHz**
•**Real-time bandwidth**	**24M, 48M, 56 M**
	(1-56 MHz Adjustable)
•Frequency resolution	1Hz
•Resolution bandwidth	
– 3 KHz, 5 KHz, 10 KHz, 20 KHz	
•Temperature stability	±20ppb
•Aging (annually)	±50ppb

Spectral Purity

•Phase Noise @1KHz offset, 1GHz	≤ -95dBc/Hz
•Phase Noise @10KHz offset, 1GHz	≤ -100dBc/Hz

Spurious Responses

•2nd Harmonic	≤ -50dBc
•3rd Harmonic	≤ -60dBc

RF Output Characteristics

▸ **Gain Range***	**-30 ~ +30dB**
(Input level basis)	
▸ Amplitude resolution	0.1dB step
▸ Amplitude accuracy	±1dB

RF Out

- ▸ 50ohm, N-type female, DC-coupled

Overload Protection on RF Output

▸ Max. reverse RF power	1 W (max.)
▸ DC input	±25 VDC (max.)

Calibration

- ▸ 1 year

Environment

▸ Operating temperature	0 ~ +50°C
▸ Relative humidity	90%
▸ Storage temperature	-20 ~ +70°C

Basic Weiver 2.0 system and options

Basic Options

- Weiver 2.0 System HW : support RF Record & Playback Mode
- → Internal HDD : 4TB SSD Type

  → cigar jack for cars, network cable, GPS ANT, portable case
- WEIVER 2.0 System SW : WEIVERCOM, WEIVEREX

Option

WEIVER 2.0
Syncer

4TB External SSD

RAID
Storage
(MAX 32TB)

QR Barcode

THANK YOU