

NEXEDGE®

Application Note

for REF_IN terminal of NXR-710/810

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1.10	26-Feb-2016	Add NXR-810's specification Add comment in the Note

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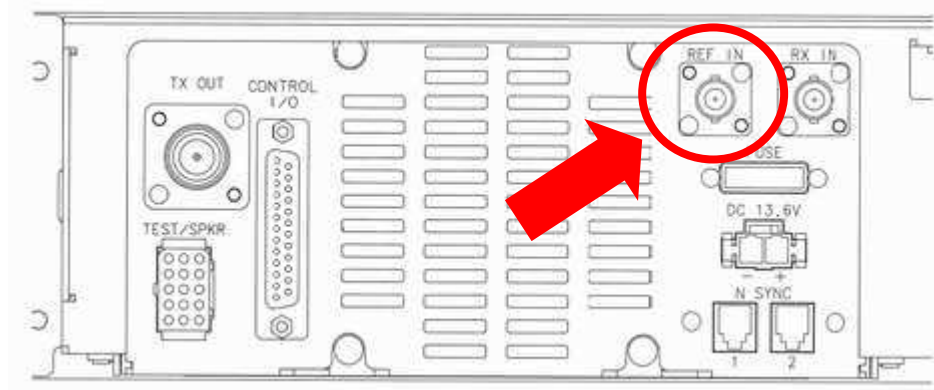
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1 REF_IN of NXR-710/810

REF_IN terminal of NXR-710/810 is used for correcting a transmission frequency of the NXR-710/810.

If the requirement for frequency stability of the system is stricter than $-1.0\text{ppm}\sim+1.0\text{ppm}$ (NXR-710) or $-0.5\text{ppm}\sim+0.5\text{ppm}$ (NXR-810) that is the performance of internal reference oscillator, an external reference signal for correction is used.

Signal oscillator or generator having sufficient performance against the system requirement may be used. Refer to the next chapter for the details of requirement of REF_IN terminal.



Note:

- An external reference signal fed into REF_IN terminal is used for correcting the transmission frequency only. Receiver's frequency is always controlled by the internal reference oscillator.
- JVCKENWOOD shall not guarantee the performance of repeater connecting with an external reference oscillator. Obey the related regional laws and regulations.

2 Requirement for REF_IN input signal for NXR-710/810

1) Frequency

10MHz (Accuracy of frequency must be the same or better than the system requirement)

2) Input level

0dBm~+10dBm

3) Waveform

Sine wave (Square wave is not able to use)

4) Harmonics and spurious level

-20dBc or less

5) Necessity of DC cut

Internal DC cut circuit equipped (Up to 20V DC)

6) Configuration of programing software

KPG-129D >Optional Features > Common Page 1 > External Reference > "Check"

