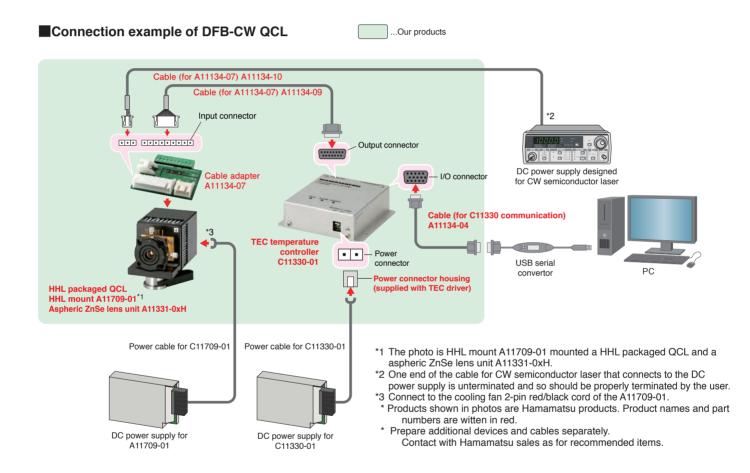
TECHNICAL NOTE 2



Quantum Cascade Laser (QCL)

Connection example of Quantum cascade laser(QCL)



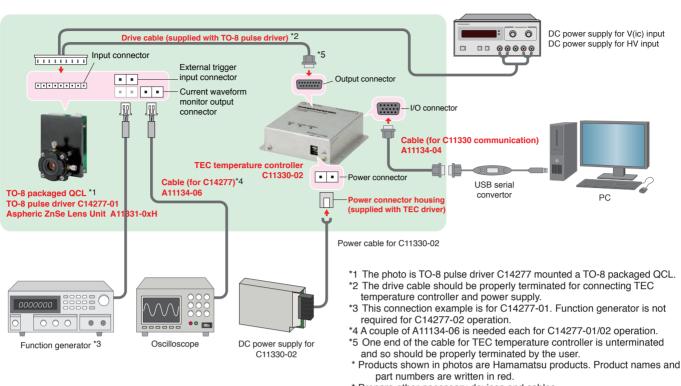
Recommended instruments

Instruments	Manufacture	Type. No
DC power supply for CW semiconductor laser	Wavelength Electronics Inc.	QCL1500 OEM(+)*1
DC power supply for C11330-01	TDK-Lambda Corporation	HWS100A-24/A
Power cable for C11330-01	Shielded and twisted pair cable: Multi-Conductor 2 (1pair twisted) Ampacity>4.0 A, 150 V	_
DC power supply for A11709-01	General-purpose DC power supply, 12 V/0.47 A	_
USB serial converter	RATOC Systems, Inc.	REX-USB60F

*1 Designed to be built into equipment

Connection example of DFB-Pulsed QCL

...Our products



* Prepare other necessary devices and cables.

Becommended instruments

Instruments	Manufacture	Type. No
DC power supply for V(ic) input	Keysight Technologies Inc.	E3620A
DC power supply for HV input		_
Dry apple	Shielded and twisted pair cable:	_
Dry cable	Multi-Conductor 8(4 pair twisted), Ampacity>2.2 A, 150 V	
Coaxial cable	Coaxial cable (50 Ω) SMB-BNC	—
DC power supply for C11330-02	TDK-Lambda Corporation	HWS50A-24/A
Power cable for C11330-02	Shielded and twisted pair cable:	_
	Multi-Conductor 2(1 pair twisted), Ampacity>4.0 A, 150 V	
USB serial converter	RATOC Systems, Inc.	REX-USB60F
Oscilloscope	Oscilloscope with over 300 MHz bandwidth	_

HAMAMATSU PHOTONICS K.K. www.hamamatsu.com

HAMAMATSU PHOTONICS K.K., Laser Promotion Division, Business Promotion G.

1-8-3, Shinmiyakoda, Kita-ku, Hamamatsu City, Shizuoka, 431-2103, Japan, Telephone: (81)53-484-1301, Fax: (81)53-484-1302, E-mail: sales-laser@lpd.hpk.co.jp

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, Bridgewater, NJ 08807, U.S.A.; Telephone: (1)908-231-0960, Fax: (1)908-231-1218 E-mail: us@hamamatsu.com Germany: Hamamatsu Photonics Deutschland GmbH.: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (4)8152-375-0, Fax: (4)8152-265-8 E-mail: info@hamamatsu.de France: Hamamatsu Photonics France S.A.R.L.: 19, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (3)1 69 53 71 00. Fax: (3)1 69 53 71 10 E-mail: info@hamamatsu.de United Kingdom: Hamamatsu Photonics Norden AB: Torshamnsgatan 35 16440 Kista, Sweden, Telephone: (4)68-509 031 00, Fax: (46)8-509 031 01 E-mail: info@hamamatsu.se Italy: Hamamatsu Photonics Norden AB: Torshamnsgatan 35 16440 Kista, Sweden, Telephone: (4)68-509 031 00, Fax: (46)8-509 031 01 E-mail: info@hamamatsu.se Italy: Hamamatsu Photonics Italia S.r.l.: Strada della Moia, 1 int. 6, 20020 Arese (Milano), Italy, Telephone: (49)10-6586-6006, Fax: (46)10-6586-6006, Fax: (46)10-6586-606, Fax: