

ICS 33.060.20
CCS M33

YD

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YD/T 6708.2-2026

**Key components and modules for Quantum Key Distribution
(QKD) based on Gaussian modulation coherent protocol - Part
2: coherent detector**

基于高斯调制相干态协议的量子密钥分发（QKD）用关键器件和模块 第2部分：
相干探测器

(English Translation)

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Foreword

YD/T 6708.2-2026 is a recommended industry standard of the People's Republic of China in the Telecom sector, approved and issued by the Ministry of Industry and Information Technology on 11 March 2026, with effect from 1 June 2026.

It is administered by the China Communications Standards Association.

Classification: ICS 33.060.20; CCS M33.

1 Scope

This part of the YD/T 6708 series covers the coherent detector used in quantum key distribution (QKD) systems based on the Gaussian modulation coherent state protocol. It defines the terms and definitions for the detector and specifies technical requirements including the photoelectric characteristics, reliability and restricted substances. It describes the corresponding test methods and sets requirements for inspection rules, marking, packaging, transport and storage. It applies to the design, development, production and testing of coherent detectors for Gaussian modulation coherent state QKD systems that transmit over optical fibre channels.

Detector manufacturers, QKD equipment integrators, test laboratories and purchasers of QKD modules are the intended users. It is a voluntary industry standard (code with /T) of the communications sector, approved by the Ministry of Industry and Information Technology. It was issued on 11 March 2026 and takes effect on 1 June 2026. It is a new standard and replaces no earlier edition.