

Bluetooth® Qualification Profile Test Report

For

PROJECTOR

Of

Shenzhen Xnewfun Technology Ltd.

Report Number: IBA201908010B-01
Design Name: PROJECTOR
Design Model Number: D019
Brand Name: Xnewfan
Final Verdict: Pass
Testing Period: 16-Aug-2019 and 29-Aug-2019
Issue Date: 22-Oct-2019
Revision: V1.0



Tested and Report prepared by:

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Tests and Report reviewed by:

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Test Report approved by:

(Brian Wu / Authorized Officer) Date: 22-Oct-2019

Issued by

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Contents

1	General Information.....	3
1.1	Administrative Details of Test Facility.....	3
1.2	Administrative Details of Client.....	3
1.3	Normal Environmental Conditions for Test.....	3
1.4	Statements.....	4
2	Details of Design under Test (DUT).....	4
2.1	General Information of DUT.....	4
2.2	Implementation of Bluetooth Specifications.....	5
2.2.1	Support for Core Specification.....	5
2.2.2	Support for Traditional Profiles.....	6
2.2.3	Support for GATT based Profiles and Services.....	8
2.2.4	Support for Mesh Networking Specifications.....	11
3	Referenced Documents and Summary of Tests.....	12
3.1	Referenced Bluetooth Specifications.....	12
3.2	Referenced Bluetooth Test Specifications.....	12
3.3	Summary of Test Results.....	12
4	Details of Test Configuration.....	13
4.1	Profile/Service Testing.....	13
4.1.1	Profile Test Tool List.....	13
4.1.2	Profile Test Setup.....	13
5	Profile/Service Test Results.....	14
5.1	PICS and PIXIT.....	14
5.2	Profile/Service Test Results.....	14
Annex A	Photos of DUT.....	16

1 General Information

1.1 Administrative Details of Test Facility

Test Facility Name	Shenzhen iBlue Area Technical Services Co., Ltd.
Address	Room 1006, Block 3A, Tianan Cloud Valley, Bantian, Longgang District, Shenzhen, Guangdong, China
Accreditation	The laboratory is accredited in accordance with ISO/IEC 17025 by China National Accreditation Service for Conformity Assessment (CNAS) with registration number L10099. The laboratory is Bluetooth SIG recognized Bluetooth Qualification Test Facility (BQTF).
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1.2 Administrative Details of Client

Applicant Name	Shenzhen Xnewfun Technology Ltd.
Address	No. 101, 1st Floor, Block D, City Shanhaiyunhui, Banxuegang Avenue, Longgang District, Shenzhen, China.

Manufacturer Name	Shenzhen Xnewfun Technology Ltd.
Address	No. 101, 1st Floor, Block D, City Shanhaiyunhui, Banxuegang Avenue, Longgang District, Shenzhen, China.

1.3 Normal Environmental Conditions for Test

Ambient Temperature	25°C ± 5°C
Ambient Relative Humidity	60% ± 25%

1.4 Statements

Following statements is essential part of this test report and shall be kept in mind on reading this test report:

1. The test results presented in this test report apply only to the particular Design under test (DUT) specified in Section 2 of this report, for the functionalities described in the relevant Protocol Implementation Statement (PICS), as presented for tests with the relevant declared Protocol Implementation Extra Information for testing (PIXIT).
2. This test report does not constitute or imply, by its own, to be an approval of the Design by Qualification Bodies/Experts/Consultants, Certification Bodies or competent Authorities.
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6. **Abbreviations in this report:**
Pass, P = passed
Fail, F = failed
N/A = not applicable
NT = not tested
DUT = Design under test
PICS = Profile Implementation Conformance Statement
PIXIT = Profile Implementation Extra Information for Testing

2 Details of Design under Test (DUT)

2.1 General Information of DUT

Design Name	PROJECTOR
Tested Model Number	D019
Series Model Number(s)	D05-D100, M6-M100, GO200, Young, AirGo, WOW, Fusion
Difference between Series Model(s) and Tested Model	Main board, appearance is different
Hardware Version Number	V03
Software Version Number	Android 7.1
Design Description	DLP projector
Bluetooth Core Specification Version	V4.2
Supported Bluetooth Core Configuration(s)	BR/EDR/LE

2.2 Implementation of Bluetooth Specifications

2.2.1 Support for Core Specification

Protocol/Profile	Name
<input type="checkbox"/> 4.0HCI	4.0 Host Controller Interface
<input type="checkbox"/> 80211 MAC-PHY	802.11 MAC-PHY
<input type="checkbox"/> 80211PAL	802.11 Protocol Adaptation Layer
<input type="checkbox"/> A2MP	AMP Manager Protocol
<input type="checkbox"/> AMPHCI	AMP Host Controller Interface
<input checked="" type="checkbox"/> ATT	Attribute Protocol
<input checked="" type="checkbox"/> BB	Baseband Conformance
<input checked="" type="checkbox"/> GAP	Generic Access Profile
<input checked="" type="checkbox"/> GATT	Generic Attribute Profile
<input type="checkbox"/> HCI	Host Controller Interface
<input checked="" type="checkbox"/> L2CAP	Logical Link Control and Adaption Protocol
<input checked="" type="checkbox"/> LL	Low Energy Link Layer
<input checked="" type="checkbox"/> LMP	Link Manager
<input checked="" type="checkbox"/> PROD	Product Type
<input checked="" type="checkbox"/> RF	Radio
<input checked="" type="checkbox"/> RFPHY	Low Energy RF PHY
<input checked="" type="checkbox"/> SDP	Service Discovery Protocol
<input checked="" type="checkbox"/> SM	Security Manager Protocol
<input checked="" type="checkbox"/> SUM ICS	Summary ICS

2.2.2 Support for Traditional Profiles

Profile	Name
<input type="checkbox"/> 3DSP	3D Synchronization Profile
<input checked="" type="checkbox"/> A2DP	Advanced Audio Distribution Profile
<input checked="" type="checkbox"/> AVCTP	Audio/Video Control Transport Protocol
<input checked="" type="checkbox"/> AVDTP	Audio Video Distribution Transport Protocol
<input checked="" type="checkbox"/> AVRCP	A/V Remote Control Profile
<input type="checkbox"/> BIP	Basic Imaging Profile
<input type="checkbox"/> BNEP	Bluetooth Network Encapsulation Protocol
<input type="checkbox"/> BPP	Basic Printing Profile
<input type="checkbox"/> BPP 1.2	Basic Printing Profile 1.2
<input type="checkbox"/> CTN	Calendar, Tasks and Notes Profile
<input type="checkbox"/> DID	Device ID
<input type="checkbox"/> DUN	Dial Up Networking Profile
<input type="checkbox"/> FTP	File Transfer Profile
<input checked="" type="checkbox"/> GAVDP	Generic A/V Distribution Profile
<input type="checkbox"/> GNSS	Global Navigation Satellite System
<input type="checkbox"/> HCRP 1.2	Hard Copy Replacement Profile 1.2
<input type="checkbox"/> HDP	Health Device Profile
<input type="checkbox"/> HFP	Hands-Free Profile
<input type="checkbox"/> HID	Human Interface Device Profile
<input type="checkbox"/> HID 1.1	Human Interface Device 1.1
<input type="checkbox"/> HSP	Headset Profile
<input checked="" type="checkbox"/> IOP	Interoperability Test Specification
<input type="checkbox"/> MAP	Message Access Profile
<input type="checkbox"/> MCAP	Multi-Channel Adaptation Protocol
<input type="checkbox"/> MPS	Multi-Profile Specification
<input checked="" type="checkbox"/> OPP	Object Push Profile
<input type="checkbox"/> PAN	Personal Area Network Profile
<input type="checkbox"/> PBAP	Phone Book Access Profile

<input checked="" type="checkbox"/>	RFCOMM	RFCOMM
<input type="checkbox"/>	SAP	SIM Access Profile
<input type="checkbox"/>	SDAP	Service Discovery Application Profile
<input checked="" type="checkbox"/>	SPP	Serial Port Profile
<input type="checkbox"/>	SYNC	Synchronization Profile
<input type="checkbox"/>	VDP	Video Distribution Profile

2.2.3 Support for GATT based Profiles and Services

Profile or Service	Name
<input type="checkbox"/> AIOP	Automation IO Profile
<input type="checkbox"/> AIOS	Automation IO Service
<input type="checkbox"/> ANP	Alert Notification Profile
<input type="checkbox"/> ANS	Alert Notification Service
<input type="checkbox"/> BAS	Battery Service
<input type="checkbox"/> BCS	Body Composition Service
<input type="checkbox"/> BLP	Blood Pressure Profile
<input type="checkbox"/> BLS	Blood Pressure Service
<input type="checkbox"/> BMS	Bond Management Service
<input type="checkbox"/> BSP	Binary Sensor Profile
<input type="checkbox"/> BSS	Binary Sensor Service
<input type="checkbox"/> CGMP	Continuous Glucose Monitoring Profile
<input type="checkbox"/> CGMS	Continuous Glucose Monitoring Service
<input type="checkbox"/> CPP	Cycling Power Profile
<input type="checkbox"/> CPS	Cycling Power Service
<input type="checkbox"/> CSCP	Cycling Speed and Cadence Profile
<input type="checkbox"/> CSCS	Cycling Speed and Cadence Service
<input type="checkbox"/> CTS	Current Time Service
<input type="checkbox"/> DIS	Device Information Service
<input type="checkbox"/> EMCS	Emergency Configuration Service
<input type="checkbox"/> EMP	Emergency Profile
<input type="checkbox"/> ESP	Environmental Sensing Profile
<input type="checkbox"/> ESS	Environmental Sensing Service
<input type="checkbox"/> FMP	Find Me Profile
<input type="checkbox"/> FTMP	Fitness Machine Profile
<input type="checkbox"/> FTMS	Fitness Machine Service
<input type="checkbox"/> GLP	Glucose Profile
<input type="checkbox"/> GLS	Glucose Service

<input type="checkbox"/>	HIDS	HID Service
<input type="checkbox"/>	HOGP	HID over GATT Profile
<input type="checkbox"/>	HPS	HTTP Proxy Service
<input type="checkbox"/>	HRP	Heart Rate Profile
<input type="checkbox"/>	HRS	Heart Rate Service
<input type="checkbox"/>	HTP	Health Thermometer Profile
<input type="checkbox"/>	HTS	Health Thermometer Service
<input type="checkbox"/>	IAS	Immediate Alert Service
<input type="checkbox"/>	IDP	Insulin Delivery Profile
<input type="checkbox"/>	IDS	Insulin Delivery Service
<input type="checkbox"/>	IPS	Indoor Positioning Service
<input type="checkbox"/>	IPSP	Internet Protocol Support Profile
<input type="checkbox"/>	LLS	Link Loss Service
<input type="checkbox"/>	LNP	Location and Navigation Profile
<input type="checkbox"/>	LNS	Location and Navigation Service
<input type="checkbox"/>	NDCS	Next DST Change Service
<input type="checkbox"/>	OTP	Object Transfer Profile
<input type="checkbox"/>	OTS	Object Transfer Service
<input type="checkbox"/>	PASP	Phone Alert Status Profile
<input type="checkbox"/>	PASS	Phone Alert Status Service
<input type="checkbox"/>	PLXP	Pulse Oximeter Profile
<input type="checkbox"/>	PLXS	Pulse Oximeter Service
<input type="checkbox"/>	PXP	Proximity Profile
<input type="checkbox"/>	RCP	Reconnection Configuration Profile
<input type="checkbox"/>	RCS	Reconnection Configuration Service
<input type="checkbox"/>	RSCP	Running Speed and Cadence Profile
<input type="checkbox"/>	RSCS	Running Speed and Cadence Service
<input type="checkbox"/>	RTUS	Reference Time Service
<input type="checkbox"/>	SCPP	Scan Parameters Profile
<input type="checkbox"/>	SCPS	Scan Parameters Service

<input type="checkbox"/>	TDS	Transport Discovery Service
<input type="checkbox"/>	TIP	Time Profile
<input type="checkbox"/>	TPS	TX Power Service
<input type="checkbox"/>	UDS	User Data Service
<input type="checkbox"/>	WSP	Weight Scale Profile
<input type="checkbox"/>	WSS	Weight Scale Service

2.2.4 Support for Mesh Networking Specifications

Profile	Name
 MESH	Mesh Profile
 MMDL	Mesh Model

3 Referenced Documents and Summary of Tests

3.1 Referenced Bluetooth Specifications

No	Specification Name	Version	Issue Date
1	Advanced Audio Distribution Profile	1.2	16-Apr-2007
2	Audio/Video Remote Control Profile	1.3	24-Jul-2012
3	Generic Audio/Video Distribution Profile	1.2	16-Apr-2007
4	Object Push Profile	1.1	22-Feb-2001

3.2 Referenced Bluetooth Test Specifications

No.	Test Specification Name	Revision	Issue Date
1	Test Case Reference List (TCRL)	2019-1	20-Aug-2019
2	Advanced Audio Distribution Profile (A2DP) <i>Bluetooth</i> [®] Test Suite	A2DP.TS.1.3.2.1	28-Jul-2019
3	Audio/Video Remote Control Profile (AVRCP) <i>Bluetooth</i> [®] Test Suite	AVRCP.TS.1.6.2.1	28-Jul-2019
4	Generic Audio/Video Distribution Profile (GAVDP) <i>Bluetooth</i> [®] Test Suite	GAVDP.TS.1.3.1	13-Dec-2016
5	Object Push Profile (OPP) <i>Bluetooth</i> [®] Test Suite	OPP.TS.1.2.1.3	24-Jul-2018
6	Product Profile Interoperability Testing (IOPT) <i>Bluetooth</i> [®] Test Suite	IOPT.TS.4.0.3	01-Jul-2018

3.3 Summary of Test Results

Test Content	Test Result	Remark
A2DP	Pass	refer to Section 5 for details
AVRCP	Pass	refer to Section 5 for details
GAVDP	Pass	refer to Section 5 for details
OPP	Pass	refer to Section 5 for details
IOPT	Pass	refer to Section 5 for details

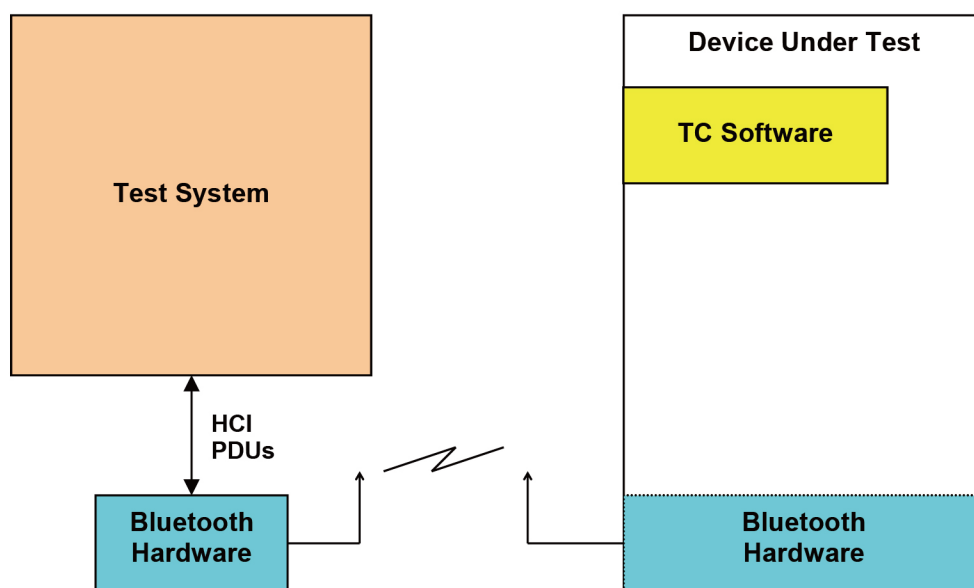
4 Details of Test Configuration

4.1 Profile/Service Testing

4.1.1 Profile Test Tool List

Test Tool Name	Type/Version	Provider
Profile Tuning Suite	Version 7.4.1	Bluetooth SIG Inc.
PTS Radio Module	Dual-Mode	Bluetooth SIG Inc.

4.1.2 Profile Test Setup



The Test System PTS for **Bluetooth** is running on a PC System.

The test system communicates with the **Bluetooth** Hardware via an HCI connection.

The tests are performed as remote tests and all communication between the Test System and the DUT is done via the radio interface.

5 Profile/Service Test Results

5.1 PICS and PIXIT

PICS & PIXIT for each tested Profile/Service were filled in PTS (Profile Tuning Suite) test tool before performing the testing and the PICS & PIXIT for each tested Profile/Service is also contained in test report generated by PTS test tool in XML format.

The PICS filled in PTS and contained in PTS test report should be consistent with the PICS filled in online Qualification tool – BLS (**Bluetooth** Launch Studio).

Refer to the PTS test report/evidence which is kept by Shenzhen iBlue Area Technical Services Co., Ltd. for the details regarding PICS and PIXIT.

5.2 Profile/Service Test Results

A2DP Sink role			
Test Case Identifier	Test Case Description	Verdict	Test Platform
A2DP/SRC/SUS/BV-02-I	Suspend Stream - SNK (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/AS/BV-01-I	Streaming - SBC (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/SDP/BV-01-I	SDP Interoperability SRC	Pass	PTS v7.4.1
A2DP/SRC/CC/BV-09-I	SBC format configuration Interoperability - SRC	Pass	PTS v7.4.1
A2DP/SRC/CC/BV-10-I	SBC format configuration Interoperability - SRC	Pass	PTS v7.4.1
A2DP/SRC/SET/BV-01-I	Establish Connection - SRC (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/SET/BV-02-I	Establish Connection - SNK (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/SET/BV-03-I	Start Stream - SRC (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/SET/BV-04-I	Start Stream - SNK (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/SET/BV-05-I	Restart Stream - SRC (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/SET/BV-06-I	Restart Stream - SNK (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/REL/BV-01-I	Release Audio Streaming - SRC (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/REL/BV-02-I	Release Audio Streaming - SNK (SRC IUT)	Pass	PTS v7.4.1
A2DP/SRC/SUS/BV-01-I	Suspend Stream - SRC (SRC IUT)	Pass	PTS v7.4.1
OPP Server role			
Test Case Identifier	Test Case Description	Verdict	Test Platform
OPP/SR/OPH/BV-10-I	Push vCal - non support (Server role)	Pass	PTS v7.4.1
OPP/SR/OPH/BV-14-I	Push vMsg - non support (Server role)	Pass	PTS v7.4.1
OPP/SR/OPH/BV-18-I	Push vNote - non support (Server role)	Pass	PTS v7.4.1
OPP/SR/OPH/BV-34-I	Close an OBEX session (Server role)	Pass	PTS v7.4.1
OPP/SR/BCP/BV-02-I	Pull - non support (Server role)	Pass	PTS v7.4.1
OPP/SR/OPH/BV-01-I	Push - List (Server role)	Pass	PTS v7.4.1
OPP/SR/OPH/BV-02-I	PIN Check (Server role)	Pass	PTS v7.4.1
OPP/SR/OPH/BV-03-I	Push vCard - accepted (Server role)	Pass	PTS v7.4.1
AVRCP Target role			
Test Case Identifier	Test Case Description	Verdict	Test Platform

AVRCP/TG/CEC/BV-01-I	Connection establishment -CT (TG IUT)	Pass	PTS v7.4.1
AVRCP/TG/CRC/BV-01-I	Connection release-CT (TG IUT)	Pass	PTS v7.4.1
AVRCP/TG/CRC/BV-02-I	Connection release-TG (TG IUT)	Pass	PTS v7.4.1
AVRCP/TG/ICC/BV-01-I	Information collection by UNIT INFO command (TG IUT)	Pass	PTS v7.4.1
AVRCP/TG/ICC/BV-02-I	Information collection by SUBUNIT INFO command (TG IUT)	Pass	PTS v7.4.1
AVRCP/TG/PTT/BV-01-I	PASS THROUGH command transfer-category 1 (TG IUT)	Pass	PTS v7.4.1
AVRCP/TG/CFG/BV-02-C	Get capabilities response - TG	Pass	PTS v7.4.1
AVRCP/TG/CFG/BI-01-C	Get capabilities invalid behavior response - TG	Pass	PTS v7.4.1
AVRCP/TG/MDI/BV-02-C	Get play status - TG	Pass	PTS v7.4.1
AVRCP/TG/MDI/BV-04-C	Get all element attributes - TG	Pass	PTS v7.4.1
AVRCP/TG/MDI/BV-05-C	Get selected element attributes - TG	Pass	PTS v7.4.1
AVRCP/TG/NFY/BV-02-C	Register Notification - TG	NT	QDID 91365
AVRCP/TG/NFY/BV-04-C	Track Changed - No Selected Track - TG	Pass	PTS v7.4.1
AVRCP/TG/NFY/BV-05-C	Track Changed - Playing Track - TG	NT	QDID 91365
AVRCP/TG/NFY/BV-08-C	Track Changed - Selected Track - TG	NT	QDID 91365
AVRCP/TG/NFY/BI-01-C	Register for events invalid behavior - TG	Pass	PTS v7.4.1
AVRCP/TG/INV/BI-01-C	Invalid PDU ID - TG	Pass	PTS v7.4.1
AVRCP/TG/RCR/BV-02-C	Request continuing response - TG	NT	QDID 91365
AVRCP/TG/RCR/BV-04-C	Abort continuing response - TG	NT	QDID 91365
GAVDP Acceptor role			
Test Case Identifier	Test Case Description	Verdict	Test Platform
GAVDP/INT/APP/CON/BV-01-C	Connection Establishment (INT IUT)	Pass	PTS v7.4.1
GAVDP/INT/APP/TRC/BV-02-C	Transfer Control – Suspend (INT IUT)	Pass	PTS v7.4.1
GAVDP/ACP/APP/CON/BV-01-C	Connection Establishment (ACP IUT)	Pass	PTS v7.4.1
IOPT			
Test Case Identifier	Test Case Description	Verdict	Test Platform
IOPT/SR/COD/BV-01-I	Class-of-Device	Pass	PTS v7.4.1
IOPT/SR/SDAS/BV-03-I	Service Search - Attribute Search	Pass	PTS v7.4.1
IOPT/CL/SDR/BV-04-I	Service Search - Response	Pass	PTS v7.4.1
IOPT/SR/SDSS/BV-02-I	Service Discovery - Service Search	Pass	PTS v7.4.1
IOPT/CL/A2DP-SRC/SFC/BV-01-I	Successful Connection with future SDP Record value – A2DP Source	Pass	PTS v7.4.1

Annex A Photos of DUT

