PERSONAL LINE WITH UNITY 4.0

Pre-Installation Requirements

Line: **Personal**
Equipment Code: **D9***Q**
Document Code: **PIR-00068-EN**
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TECHNOGYM®

The Wellness Company

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The information in this manual is intended for QUALIFIED TECHNICAL PERSONNEL - designated by the customer - who are in charge of preparing the electrical and network line, to guarantee the correct functioning of equipment.

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1.   GENERAL WARNINGS

This manual includes informative notes with specific meanings:

Safety signs classified according to the relative seriousness of the potential hazards:

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

WARNING: Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION: *Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.*

Signs applicable to equipment:

ATTENTION: Regulation that may lead to damage to the equipment if not complied with.

Detail regarding the operation in progress.

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2. NETWORK DESIGN – CONFIGURATION AND INSTALLATION

2.1 INTRODUCTION

- Installation and configuration of the network infrastructure (cables), of the network hardware (Switch, Router, firewall) and any wireless network are at the expense of the customer.

- Technogym warns that the efficiency and correct operation of the equipment and of the Mywellness Cloud services depend on the technical characteristics of the hardware that is installed.

- Technogym does not guarantee the correct operation of the Mywellness Cloud services in the event of failure to comply with all the technical specifications and warnings indicated.

2.2 NETWORK DESIGN AND INSTALLATION (BUSINESS TO BUSINESS (B2B))

During the network design and preparation phases, Technogym requests to be put in touch with the technicians of the company performing the work, in order to obtain and provide technical information, so that the network is installed and configured according to the required technical requirements.

Technogym can not be held responsible for failures due to site preparation, assembly and installation not correct.

2.3 CONFIGURATION AND INSTALLATION (BUSINESS TO BUSINESS (B2B))

Before performing the installation, the customer should inform Technogym that all the required components have been provided and installed and that they operate correctly.

For this purpose, Technogym will contact the customer few days before the date set for installation, to acquire the information related to the installation status of the network for the equipment and make sure that everything that has been requested to perform installation of the equipment is provided and operational.

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3. DISPLAY

3.1 BIKE PERSONAL

The Bike Personal (D9C**Q) product is fitted with UNITY 4.0 display.

Fig. 1

3.2 RUN PERSONAL

The Run Personal (D94**Q) product is fitted with UNITY 4.0 display.

Fig. 2

3.3   RECLINE PERSONAL

The Recline Personal (D96**Q) product is fitted with UNITY 4.0 display.

Fig. 3

3.4   CROSS PERSONAL

The Cross Personal (D95**Q) product is fitted with UNITY 4.0 display.

Fig. 4

4. TECHNICAL CHARACTERISTICS AND REQUIREMENTS

4.1 TECHNICAL DATA AND POWER REQUIREMENTS

4.1.1 Bike - Recline - Cross

PASSIVE PERSONAL EQUIPMENT			
	BIKE	**RECLINE**	**CROSS**
Braking power (70rpm)	40÷500W ± 10%		56÷436W ± 10%
Power Supply	100÷240Vac 50/60Hz		
Maximum Absorption (*)	100 W 1 A @110 Vac, 50/60Hz 100 W 0.55 A @230 Vac, 50/60Hz		
Mains power input	160VA max		
Time	0÷999min ± 1%		
Distance	0÷99.99km ± 5% (0÷99.99mls ± 5%)		
Protection grade	IP 20		
Electric isolation class	Class I		
Operating Temperature	from +10°C to +25°C with humidity between 20% and 90%		

Tab. 1

(*): Theoretical values.

4.1.2 Run

RUN PERSONAL		
	D947E, D9472 (200-240V CE)	**D9471 (100-240V UL)**
Power Supply	200÷240Vac 50/60Hz	100÷240Vac 50/60Hz
Maximum Absorption (*)	-	16A @110Vac, 50/60Hz
	8A @230Vac, 50/60Hz	8A @230Vac, 50/60Hz
Maximum power input	1500 W	
Speed	0.4÷18Km/h ± 5%	
Gradient	0÷15%	
Noise Level	Less than 70dB	
Protection rating	IP 20	
Time	0÷999min ± 1%	
Distance	0÷99.99km ± 5% (0÷99.99mls ± 5%)	
Place of Usage	from +10°C to +25°C with humidity between 20% and 90%	

Tab. 2

(*): Theoretical values.

4.2   ELECTRICAL CONNECTION

ⓘ *Technogym recommends a dedicated power supply line for each machine.*

Before connecting the product to the mains power supply, ensure that the electrical system specifications comply to binding regulations. Check the specifications of the mains power supply on the product's identification label.

⚠ **WARNING: The wall socket must be located in a place where the plugging and unplugging can be done easily and safely.**

The power supply socket must be grounded. If not, a ground connection must be installed by a qualified electrician before connecting the equipment to the electricity mains.

The product must be grounded.If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

⚠ **WARNING: Improper connection of the equipment-grounding conductor can result in risk of electrical shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product. If it will not fit in the outlet, have a proper outlet installed by a qualified electrician.**

4.3   POSITION OF THE PRODUCT SOCKET

Fig. 5 - Bike Personal

Fig. 6 - Run Personal

Fig. 7 - Recline Personal

Fig. 8 - Cross Personal

5.   NETWORK REQUIREMENTS

5.1   INTRODUCTION

The equipment supports both wireless and wired internet connection.

(i) *In all situations, where possible, Technogym recommends connection via network cable.*

In all cases, the network must be installed and configured by the customer before Technogym delivers the product, in accordance with the technical specifications set out below.

5.2   ETHERNET CABLED NETWORK

_Category 5e/6 - UTP Ethernet cables with RJ45 patch;

_Switch with a number of ports greater than or equal to the number of equipment fitted with UNITY connected.

5.3   WI-FI NETWORK REQUIREMENTS

Connect the product to the Wi-Fi network, taking into account the following requirements:

- Standard: IEEE 802.11 a/b/g/n/ac at **5GHz** or 2.4GHz;

- Security Protocol: WEP, WPA/WPA2, open (free) network; The Protocol WPA2 Enterprise is not supported;

- There must be only one dedicated Access Point / Wi-Fi router that provides the service;

- DHCP enabled;

- It's recommended to avoid broadcasting the same SSID, through 2.4 and 5 GHz, at the same time.

In case of professional Access Point or if the equipment is used in a public / company network (hotel, fitness facility) you must cover the following additional requirements:

- Configure the Access Point to broadcast only one SSID (Service Set Identifier) needed for the equipment installation. The SSID must not be hidden;

- Program in the display of equipment (Customer Menu 2406: Network: Wi-Fi) just only the SSID defined above;

- Frequency Band:

    - 5GHz band only (not automatic) is the configuration suggested;

    - If the Access Point is not provided with 5GHz band, 2.4GHz is fine but might need some channel fine tuning by the local IT company. The best practice for 2.4GHz Wi-Fi configuration is enabling Wi-Fi on one of the following channels: 1, 6, 7, 8, 9,

10, 11, 12. Other channels: 2, 3, 4, 13, 14 might cause interference with Bluetooth signal.

- Avoid in any case to broadcast the same SSID, through 2.4 and 5 GHz, at the same time.

- LEASE TIME : at least three days;

- SESSION TIMEOUT disabled (Typically achieved setting the timeout = 0).

ⓘ *For more details about* Access Point (AP)*, refer to the* AP *technical specifications.*

5.4 WIRELESS GUIDELINES

The following indications must be interpreted only as guidelines.

5.4.1 Home

- Make sure the wi-fi signal is reachable by the equipment.

- If you use an Access Point / Wi-Fi router with a fixed channel: avoid overlapping problems if, in the same area, there are Access Points / Wi-Fi routers that use the same channel.

5.4.2 Fitness Facility - Hotel

The wireless network should be installed and configured only by specialised companies and expert technicians.

- The equipment must not be more than 25-30 metres LOS (line of sight) away from the Access Point (analyse possible problems due to the presence of walls or other obstacles between the Access Point and the equipment).

- If you use an Access Point with a fixed channel: avoid overlapping problems if, in the same area, there are Access Points that use the same channel.

5.5 MAXIMUM NUMBER OF EQUIPMENT CONNECTED TO ONE ACCESS POINT

_Up to 5 devices: use a commercial Access Point.

_More than 5 devices: use a professional Access Point (see the technical datasheet).

ⓘ *For more details about* Access Point (AP)*, refer to the* AP *technical specifications.*

5.6 INTERNET CONNECTION BANDWIDTH REQUIREMENTS

5.6.1 Home

Internet Speed requirements	
N°1 Equipment	
5 Mbps or more	**for the best audio and video experience: HD quality (up to 1080p)**
3 Mbps	for viewing medium quality (standard definition video, DVD quality)
1.5 Mbps	for viewing low quality video (minimum) (not recommended)
N°2 Equipment	
(5 Mbps or more) *2	**for the best audio and video experience: HD quality (up to 1080p)**
3 Mbps *2	for viewing medium quality (standard definition video, DVD quality)
1.5 Mbps *2	for viewing low quality video (minimum) (not recommended)

Tab. 3

5.6.2 Fitness Facility - Hotel

The below table illustrates the minimum infrastructure requirements, based on the number of equipment fitted with UNITY 4.0. In detail, the requirements (minimum and target) are based on average usage of UNITY 4.0 machines / applications at the same time.

(i) *Configuration with minimum Internet bandwidth may slow down Internet browsing when all products fitted with UNITY 4.0 are using Internet at the same time.*

UNITY 4.0 - NETWORK/INTERNET BANDWIDTH REQUIREMENTS

		5		10		20		40		60		100	
		max #equipment units											
MINIMUM requirements (webpages without video, Facebook, Cloud...)	local network	WiFi or Cable		WiFi or Cable		WiFi or Cable		WiFi or Cable		WiFi or Cable		WiFi or Cable	
	internet connection (bandwidth requirements)	Download	Upload	Download	Upload	Download	Upload	Download	Upload	Download	Upload	Download	Upload
		>2 Mbps	>512Kbps	>5 Mbps	>512Kbps	>7 Mbps	>1Mbps	>10 Mbps	>1Mbps	>16 Mbps	>2Mbps	>20 Mbps	>2 Mbps
	local server	not necessary		not necessary		not necessary		not necessary		not necessary		not necessary	
TARGET requirements (With web video like youtube, facebook video, ...)	local network	WiFi or Cable		WiFi or Cable		WiFi or Cable		WiFi or Cable		WiFi or Cable		WiFi or Cable	
	internet connection (bandwidth requirements)	Download	Upload	Download	Upload	Download	Upload	Download	Upload	Download	Upload	Download	Upload
		>5 Mbps	>512Kbps	>7 Mbps	>512Kbps	>10 Mbps	>1Mbps	>20 Mbps	>1 Mbps	>30 Mbps	>2 Mbps	>50 Mbps	>2 Mbps
	local server	not necessary		not necessary		not necessary		not necessary		not necessary		not necessary	

Fig. 9

5.7 FIREWALL / ROUTER RULES FOR ACCESS TO MYWELLNESS CLOUD SERVICES

The Firewall\Router installed locally must be configured with **ports 80 and 443 open**. These ports must also be opened on the devices of the related ISP (Internet service provider).

Free access to the Internet must be guaranteed for correct use of the Mywellness Cloud services, and in particular access to the following DNS names must never be disabled.

DNS Names
mywellness.com
technogym.com
facebook.com
facebook.net
fbcdn.net
google.com
googleapis.com
google-analytics.com
worldweatheronline.com
clouddrive.com;
cloudfront.net;
rackcdn.com;
time.android.com

Tab. 4 - DNS Names for PERSONAL LINE with UNITY 4.0 Display

(i) *It shall be possible to download **.tar** packets.*

5.8 PROXY

This parameter MUST ALWAYS BE DISABLED, because if enabled UNITY does not manage the Apps.

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6.　STANDARD TV TECHNICAL SPECIFICATIONS

6.1　INTRODUCTION

The data useful to antenna installers for checking the suitability of the antenna signal input to the

equipment with UNITY 4.0 are detailed below.

ⓘ *The readings in the tables below must be taken directly at the antenna input connector on the*
　　　equipment.

ⓘ I*f the equipment is not connected to a terrestrial antenna or if it is connected but the signal is*
interrupted by line disconnection switches, such as television control units or modulators or other
devices, the equipment will not be able to receive the signal to tune into the radio stations.
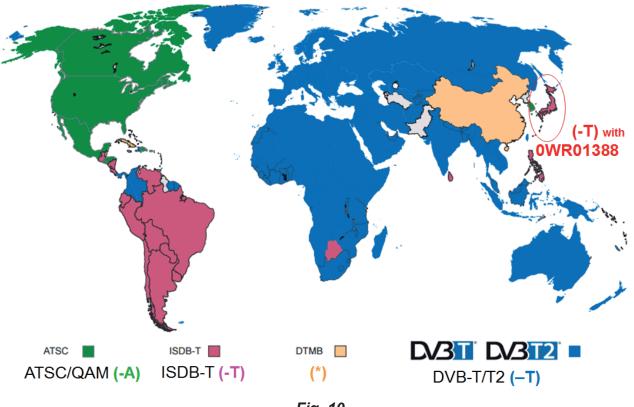
ⓘ *Key to abbreviations:*

- *dBµV = dB microVolt*

- *dBmV = dB milliVolt*

- *dBm = dB milliWatt*

- *SNR = Signal to Noise Ratio*

Hereafter is shown the UNITY 4.0 – Digital TV standards broadcasting map:

TV: DVB WORLDWIDE @ UNITY 4.0

Fig. 10

(*): DTMB not supported yet.

6.2   VIRTUAL LAN

UNITY 4.0 doesn't manage the VLANs because it has only one CPU port that manages both Internet and IPTV on the same network.Therefore it's not possible to set a VLAN network on IPTV infrastructure.

However, it's possible to manage the VLANs, through a dedicated upgrade kit. See the below standard options.

6.3   LAN

If there's an IPTV infrastructure via LAN, internet must be via ethernet.

However, it's possible to have internet via Wi-Fi, through a dedicated upgrade kit. See the below standard options.

6.4   UNITY 4.0 DVB-T / T2 / C / ISDB-Tb VERSION (-T) STANDARD OPTIONS

NOT ENCRYPTED

- Analog TV + FM Radio;

- Digital TV DVB-T/ DVB-T2 (mpeg2, H264, HEVC) not encrypted;

- Digital TV ISDB-Tb not encrypted (ADD-ON 0WR01388** for Japan version);

(i) *If the equipment must be installed in Japan, the equipment is sent with the Japanese Power Supply cable and the kit 0WR01388**. The kit is mounted on the machine during the installation phase.*

- Cable DVB-C (64/128/256) not encrypted;

- IPTV (LAN- mpeg over UDP/RTP) not encrypted + Internet via LAN;

- IPTV (LAN- mpeg over UDP/RTP) not encrypted+ Internet via LAN (different VLAN) -> (ADD-ON A0001109 (not available yet));

- IPTV (LAN -mpeg over UDP/RTP) not encrypted + Internet via Wi-Fi -> (ADD-ON A0001109 (not available yet)).

ENCRYPTED

DIGITAL COAX - ENCRYPTED:

- Pro:IDIOM (Released only in US): Cable TV (coax QAM-B 64/256) ENCRYPTED Pro:IDIOM -> (ADD-ON A0000845);

- Other encryption standards:

    - centrally convert the signal to COAX analog/digital (DVB-C) without encryption;

    - install an external Set Top Box: HDMI-IN input ready for external STB -> Not supported.

DIGITAL IPTV - ENCRYPTED:

- Pro:IDIOM : IPTV SD/HD (LAN mpeg over UDP/RTP) ENCRYPTED Pro:IDIOM –> (ADD-ON A0001109 (not available yet));

- IPTV (other encryption standards):

    - centrally convert the signal to IPTV WITHOUT encryption;

- install an external Set Top Box: HDMI-IN input ready for external STB -> Not supported.

SUPPORTED ANALOGIC STANDARDS (DVB-T / T2 / C)

- PAL B/G , PAL I , SECAM DK , SECAM L , SECAM L1;

- NTSC M , PAL M , PAL N;

- PAL B/G AUSTRALIA;

- PAL D/K.

SUPPORTED ANALOGIC STANDARDS (ISDB-Tb): NTSC M

STANDARD (NOT ENCRYPTED) DVB-T/ DVB-T2 / DVB-C/ISDB-Tb ANALOG/ IPTV UNITY4 VERSION "-T"			
Broadcast System	DIGITAL TV: DVB-T / DVB-T2 (mpeg2, H264, HEVC) / DVB-C / ISDB-Tb ANALOG TV: YES RADIO FM: YES RF INPUT: F-Type connector INPUT INPEDENCE: 75 Ohm (max nondestructive input power: 10 dBm)		
	DVB-C	QAM 16, 32, 64, 128, 256 / BANDWIDTH 8 MHz	
		CABLE TUNER: 42 MHz to 1002 MHz	
		Symbol Rate: 6875, 6900, 6956 , manual setting (Automatic selection of the first one available)	
Signal Level (COAX)	DVB-C (256 QAM)	MIN: -50 dBm / 59 dBµV / -1 dBmV (SNR> 33)	
		MAX: 0 dBm / 109 dBµV / 49 dBmV (SNR>33)	
	DVB-T/T2/ISDB-Tb	MIN: -60 dBm / 49 dBµV / -11 dBmV (SNR> 23)	
		MAX: 0 dBm / 109 dBµV / 49 dBmV (SNR> 23)	
Codecs	MPEG-2 MP@HL. MPEG -4 pt10 AVC/H.264 HP@L4-VC1. HEVC/H265 MAIN, MAIN 10 PROFILE		
Video Resolutions	Decodes up to 720p and 1080p		
Audio	MPEG 1, 2, MP3, DD/DD+, AAC, AC3		
IPTV	INPUT: Ethernet 10/100/1000 BaseT via RJ-45 shielded connector PROTOCOLS: mpeg TS over UDP/RTP protocols Supports IP and RF tuning: direct IPTV, RF only, and mixed RF/IP		

Tab. 5

COAX QAM Pro:IDIOM®: ATSC/ QAM-B Pro:IDIOM® UNITY 4.0 VERSION "-T" + UPGRADE KIT A0000845		
Broadcast System	CABLE TV: QAM-B (64/256 QAM –ITU J83 Annex B) – Channel spacing 6 MHz	
	DIGITAL TV : ATSC (free to air)	
	ANALOG TV: Not available	
	RADIO FM: Not available	
	RF INPUT: F-Type connector	
	INPUT INPEDENCE: 75 Ohm (max nondestructive input power: 10 dBm)	
	CABLE TUNER: 54 MHz to 1GHz	
Signal Level	256 QAM	MIN: -50 dBm / 59 dBµV / -1 dBmV (SNR> 33)
		MAX: 0 dBm / 109 dBµV / 49 dBmV (SNR>33)
	ATSC	MIN: -60 dBm / 49 dBµV / -11 dBmV (SNR> 23)
		MAX:0 dBm / 109 dBµV / 49 dBmV (SNR> 23)
Codecs	MPEG-2 MP@HL. MPEG -4 pt10 AVC/H.264 HP@L4-VC1. HEVC/H265 MAIN, MAIN 10 PROFILE	
Video Resolutions	Decodes up to 720p and 1080p	
Encrypted TV	Embedded Zenith Pro:IDIOM® DECRYPTION Closed Captioning	
Audio	MPEG 1, 2, MP3, DD/DD+, AAC, AC3	

Tab. 6

IPTV Pro:IDIOM® UNITY 4.0 VERSION "-A" + UPGRADE KIT A0001109 (not available yet)	
Codecs	MPEG-2 MP@HL. MPEG -4 pt10 AVC/H.264 HP@L4-VC1. HEVC/H265 MAIN, MAIN 10 PROFILE
Video Resolutions	Decodes up to 720p and 1080p
Audio	MPEG 1, 2, MP3, DD/DD+, AAC, AC3
Input	Ethernet 10/100 BaseT via RJ-45 shielded connector
Protocols	mpeg TS over UDP/RTP protocols
Encrypted TV	Embedded Zenith Pro:IDIOM® DECRYPTION

Tab. 7

6.5   UNITY 4.0 - VERSION (-A) STANDARD OPTIONS - USA/CANADA

NOT ENCRYPTED

- Analog TV (e.g. NTSC) + FM Radio;

- Digital TV (coax ATSC) not encrypted;

- Cable TV (coax QAM-B 64/256) not encrypted;

- IPTV (LAN- mpeg over UDP/RTP) not encrypted + Internet via LAN;

- IPTV (LAN- mpeg over UDP/RTP) not encrypted + Internet via LAN (different VLAN) -> (ADD-ON A0001109 (not available yet));

- IPTV (LAN -mpeg over UDP/RTP) not encrypted + Internet via Wi-Fi (ADD-ON A0001109 (not available yet)).

ENCRYPTED

DIGITAL COAX - ENCRYPTED:

- Pro:IDIOM: Cable TV (coax QAM-B 64/256) ENCRYPTED Pro:IDIOM - (ADD-ON A0000845);

- Other encryption standards

    - centrally convert the signal to COAX analog/digital (QAM) without encryption;

    - install an external Set Top Box: HDMI-IN input ready for external STB -> Not sup ported.

DIGITAL IPTV - ENCRYPTED

- Pro:IDIOM : IPTV SD/HD (LAN mpeg over UDP/RTP) ENCRYPTED Pro:IDIOM -> (ADD-ON A0001109 (not available yet));

- IPTV (other encryption standards):

    - centrally convert the signal to IPTV WITHOUT encryption;

    - install an external Set Top Box: HDMI-IN input ready for external STB -> Not sup ported.

SUPPORTED ANALOGIC STANDARDS:

- NTSC M , PAL M , PAL N;

STANDARD (NOT ENCRYPTED) ATSC/ QAM-B / ANALOG NTSC / IPTV UNITY 4.0 VERSION "-A"		
Broadcast System	CABLE TV: QAM-B (64/256 QAM –ITU J83 Annex B) – Channel spacing 6 MHz	
	DIGITAL TV : ATSC (free to air)	
	ANALOG TV: YES	
	RADIO FM: YES	
	RF INPUT: F-Type connector	
	INPUT INPEDENCE: 75 Ohm (max nondestructive input power: 10 dBm)	
	CABLE TUNER: 54 MHz to 1GHz	
Signal level (COAX)	256 QAM	MIN: -50 dBm / 59 dBµV / -1 dBmV (SNR> 33)
		MAX: 0 dBm / 109 dBµV / 49 dBmV (SNR>33)
	ATSC	MIN: -60 dBm / 49 dBµV / -11 dBmV (SNR> 23)
		MAX: 0 dBm / 109 dBµV / 49 dBmV (SNR> 23)
Codecs	MPEG-2 MP@HL. MPEG -4 pt10 AVC/H.264 HP@L4-VC1. HEVC/H265 MAIN, MAIN 10 PROFILE	
Video Resolutions	Decodes up to 720p and 1080p	
Audio	MPEG 1, 2, MP3, DD/DD+, AAC, AC3	
IPTV	INPUT: Ethernet 10/100/1000 BaseT via RJ-45 shielded connector	
	PROTOCOLS: mpeg TS over UDP/RTP protocols	
	Supports IP and RF tuning: direct IPTV, RF only, and mixed RF/IP	

Tab. 8

COAX QAM Pro:IDIOM®: ATSC/ QAM-B Pro:IDIOM® UNITY 4.0 VERSION "-A" + UPGRADE KIT A0000845		
Broadcast System	CABLE TV: QAM-B (64/256 QAM –ITU J83 Annex B) – Channel spacing 6 MHz	
	DIGITAL TV : ATSC (free to air)	
	ANALOG TV: Not available	
	RADIO FM: Not available	
	RF INPUT: F-Type connector	
	INPUT INPEDENCE: 75 Ohm (max nondestructive input power: 10 dBm)	
	CABLE TUNER: 54 MHz to 1GHz	
Signal level	256 QAM	MIN: -50 dBm / 59 dBµV / -1 dBmV (SNR> 33)
		MAX: 0 dBm / 109 dBµV / 49 dBmV (SNR>33)
	ATSC	MIN: -60 dBm / 49 dBµV / -11 dBmV (SNR> 23)
		MAX: 0 dBm / 109 dBµV / 49 dBmV (SNR> 23)
Codecs	MPEG-2 MP@HL. MPEG -4 pt10 AVC/H.264 HP@L4-VC1. HEVC/H265 MAIN, MAIN 10 PROFILE	
Video Resolutions	Decodes up to 720p and 1080p	
Encrypted TV	Embedded Zenith Pro:IDIOM® DECRYPTION Closed Captioning	
Audio	MPEG 1, 2, MP3, DD/DD+, AAC, AC3	

Tab. 9

IPTV Pro:IDIOM® UNITY 4.0 VERSION "-A" + UPGRADE KIT A0001109 (not available yet)	
Codecs	MPEG-2 MP@HL. MPEG -4 pt10 AVC/H.264 HP@L4-VC1. HEVC/H265 MAIN, MAIN 10 PROFILE
Video Resolutions	Decodes up to 720p and 1080p
Audio	MPEG 1, 2, MP3, DD/DD+, AAC, AC3
Input	Ethernet 10/100 BaseT via RJ-45 shielded connector
Protocols	mpeg TS over UDP/RTP protocols
Encrypted TV	Embedded Zenith Pro:IDIOM® DECRYPTION

Tab. 10

7.   ACKNOWLEDGEMENT AND ACCEPTANCE

Date: _____

Acknowledged and accepted _____

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8. LIST OF CHANGES FOR MANUAL REVISION

The main changes made to this manual, are listed below in chronological order.

8.1 REVISION 1.0

First released version.

8.2 REVISION 2.0

Added information about Run, Cross and Recline products with Unity 4.0 display.

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