Dialog
AUSILI MEDICALI

DYNAMIC TOUCH COMMUNICATOR

DIALOG X3 pro
eyetracking




Dialog
Internet
Email
Communicate
Home automation
Media
Advanced control
8:58 AM
Tuesday, March 5, 2024
DIALOG

Each person, regardless of the degree of disability, has the right to influence, through communication, the conditions of their own life.

**National Joint Committee for the Communication Needs of Persons with Severe Disabilities, 1992.*

Introduction and Intended Use

The **Dialog X3pro** Communicator is a 13" touchscreen Electromedical Device running Windows 10 Pro.

It has been specifically designed to meet the technical and communication needs of individuals with severe neuromotor impairments and/or dystonia and is particularly suitable for conditions such as ALS (Amyotrophic Lateral Sclerosis), SMA (Spinal Muscular Atrophy), and Tetraplegia.

The system is optimized for use with a binocular eye-tracking system, allowing users to communicate via pupil movement using alphabetic communication. It also integrates environmental control (home automation) features and full PC management in the Windows environment.



The **Dialog X3pro** eyetracking has been developed in compliance with the essential requirements of Italian Legislative **Decree No. 46/97 of February 24, 1997**, implementing **Directive 93/42/EEC** on medical devices, as amended by **Legislative Decree No. 37 of January 25, 2010**.

The Dialog X3pro eyetracking is registered with the Italian Ministry of Health as a **Medical Device** under registration number **1880724** and is listed in the national medical device registry under code **1880724/R**.

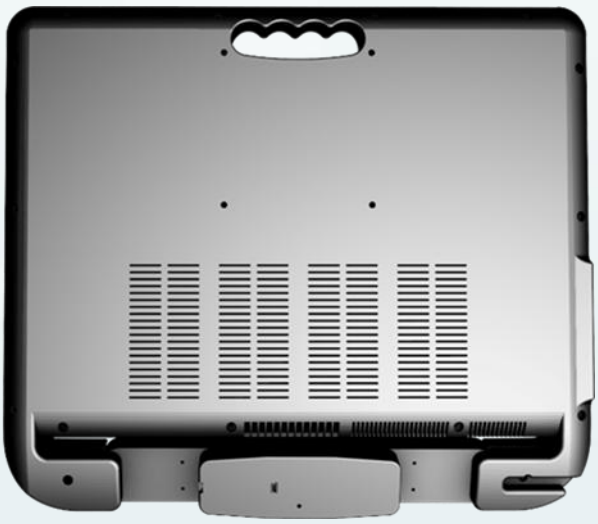
Key Features

Constructed with **shock-resistant materials**, the Dialog X3pro is lightweight, practical, and equipped with a convenient handle for easy transport.

Thanks to its **VESA mount** and **quick-release** plate, it can be easily installed on bed stands, wheelchairs, tables, or wall mounts.

At the top front of the device, two powerful speakers ensure high-quality audio output for voice synthesis, music, or other sounds.





Interfaces and Home Automation

Positioned on the side panel are the power input and all essential input/output ports required for connectivity and audio/video functionality

A key feature is the inclusion of **five dedicated sensor inputs**, enabling the direct connection of up to five external switches or sensors—one per input—to improve device accessibility.

The Dialog X3pro is designed to support **environmental control** through various connection systems.

By default, it includes Wi-Fi, Bluetooth, and a rear-mounted infrared sensor.

An optional wireless radio frequency module can also be added upon request, enabling control of a wide range of systems and devices.



Dialogo AAC Software

The Dialog X3pro comes pre-installed with **Dialogo AAC software**, designed to support individuals with complex communication disorders.

This software allows for the creation of **Augmentative and Alternative Communication (AAC) structures** in a simple and intuitive way, transforming traditional paper-based communication tools into customizable, interactive digital experiences.

Users can create educational content, personal autonomy tasks, interactive tests with reports, social stories, on-screen keyboards, and inclusive games. It also supports smart device control (e.g., lights, TVs, beds, alarms, toys), and voice assistant integration.

Dialogo AAC enables the inclusion of multimedia content in the structures such as music and videos and lets users read PDF books. Interactive structures can be created, downloaded, and used to access web services and social platforms such as browsers, email, WhatsApp, Facebook, Instagram, and many others.



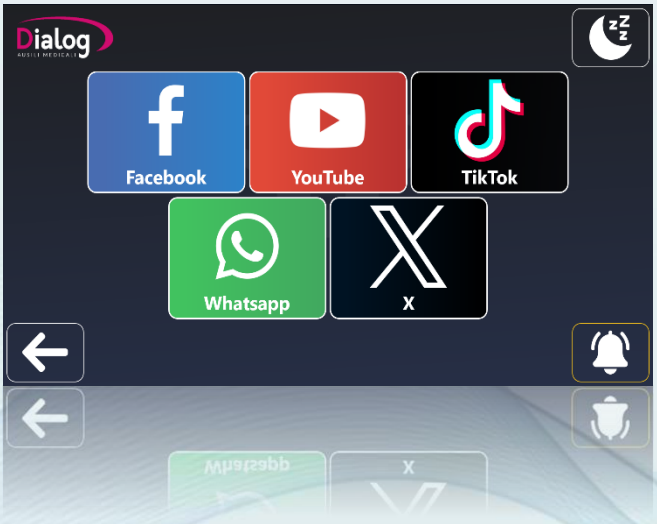
Matrix AAC Software

On request, users can purchase and install **Matrix AAC**, our advanced **Augmentative and Alternative Communication (AAC) software** for building communication structures, grids, and books.
In addition to simplified communication tools, Matrix AAC includes features for home automation and PC management within the Windows environment.

It enables users to write documents (with or without images), read PDF and Word files, perform mathematical calculations, listen to music, view photos and videos, and access streaming platforms and TV guides. It also offers easy access to the Internet, email, and major social networks.

The Advanced Control function includes a configurable progressive zoom lens, allowing precise interaction with any external application.

With the integration of Matrix AI, users gain access to **AI-powered features** such as custom command creation and text and symbol grammar correction, enhancing both creativity and communication capabilities.





Accessibility

The Dialog X3pro provides **multiple access methods** to accommodate users with a wide range of needs based on their medical condition:

- **Touchscreen access** is available for users with sufficient upper limb mobility.
- Users with limited residual movement in any limb can access the device via **sensor interfaces** or body part **tracking devices**.
- For users with no residual motor control, the system can be fully accessed via **eye tracking**.

The communicator is optimized for integration with our binocular eye tracker (Deye), offering a compact and elegant solution for a complete assistive communication system.



Technical Specifications

- **Display**: 13″ LED touchscreen
- **Resolution**: 1920 x 1080 px
- **Size**: 36 x 31 x 3 cm
- **Integrated 5-port switch interface** (compatible with various sensors: buttons, pedals, etc.)
- **Weight**: 1.4 kg
- **Processor**: Intel® Core™ i7 – 6500U CPU @ 2.50GHz 2.59 GHz
- **Inputs**: 3x USB 3.0 ports, audio/video output, microphone input
- **Network**: Ethernet 10/100
- **Camera**: Integrated 1.3 MP webcam
- **RAM**: 8 GB DDR4
- **Storage**: 250 GB SSD (primary)
- **Bluetooth**: 4.2
- **Wi-Fi**: 802.11 AC
- **Battery**: 8000 mAh 6-cell
- **Charger**: 19V 4.74A
- **VESA Mount**: 10 x 7.5 cm
- **Radio Frequency Module (Easywave)**: Optional
- **Pen and Touch**: 10-point multi-touch support
- **Operating System**: Windows 10 Pro

Accessories



Carrying case



Power adapter

Optional accessories



Measuring tape



USB cable



Deye

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AUSILI MEDICALI



Dialog Ausili S.r.l.

Via Praga 20, Zona P.I.P.

Marrubiu 09094 (OR) Italia

+39 0783 - 1925658

info@dialogausili.com

www.dialogausili.com