





# International Electrotechnical Commission International Organization for Standardization Graphical Symbols for Use on Equipment

(requires password)

The database on Graphical Symbols for Use on Equipment contains the complete set of graphical symbols included in IEC 60417 and ISO 7000. It therefore offers end-users a "one-stop" shop for all such graphical symbols. These International Standards are maintained respectively by IEC/TC 3, subcommittee SC 3C and ISO/TC 145, subcommittee SC 3.

Each graphical symbol is identified by a reference number and contains a title (in English and French), a graphical representation in GIF and/or PNG and vectorized PDF format, and some additional data as applicable. Various search and navigation facilities allow for easy retrieval of graphical symbols.

# **Subscriptions**

Customers have the possibility to subscribe to the joint IEC and ISO collection of graphical symbols or to each respective organization's graphical symbols only.

#### Joint IEC 60417 and ISO 7000 collection

The most cost effective solution is the combined collection which offers the IEC 60417 and ISO 7000 collections in database format, with the possibility to download IEC 60417 snapshots or the ISO 7000 snapshots in PDF format. In order to subscribe please contact your local IEC National Committee/approved sales outlet or local ISO member, or visit the <a href="IEC Webstore">IEC Webstore</a> or the <

#### IEC 60417 collection only

If you are only interested in those graphical symbols produced by the IEC, then this restricted collection offers you access to the IEC 60417 standard only, with PDF snapshots of the entire collection available for added value. In order to subscribe please contact your local IEC National Committee/approved sales outlet or visit the IEC Webstore.

## ISO 7000 collection only

If you are only interested in those graphical symbols produced by the ISO, then this restricted collection offers you access to the ISO 7000 standard only, with a PDF version of ISO 7000 available for added value. In order to subscribe please contact your local ISO member or visit the <u>ISO Store</u>.

#### Special access requests

IEC National Committees (click here)

ISO members (click here)

IEC TC/SC Officers (click here)

ISO TC/SC Officers (click here)

IEC National Committees and ISO Member Bodies should indicate the names of the staff members to be authorized and the username used for accessing documents on the IEC or ISO web site respectively.

TC/SC officers should indicate their position with respect to a given TC/SC (chair, secretary, convenor) and the username used for accessing documents on the IEC or ISO web site respectively.

#### **Localized versions**

In addition to the international standard IEC 60417 maintained by IEC/TC 3, subcommittee SC 3C, IEC also hosts localized versions of IEC 60417 maintained under the responsibility of the respective National Committee. The following localized version is currently available:

#### <u>Japanese</u>

### Queries and comments

Please send any queries or comments to the IEC Helpdesk or to ISO Customer Services.

Web page created 2025-03-04







# International Electrotechnical Commission International Organization for

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Name (ISO 7000)

Keywords

Shape

**Function** 

**Application** 

TC/SC

**Publication** 

Date of release

IEC draft status

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#### Introduction

**Standardization** 

The database is organized as a set of "data sheets" describing the graphical symbols and their attributes. Please click on "General description" on the left panel to see how the database is structured and how to use graphical symbols.

IEC 60417 is used as a reference by the following IEC member countries:

Austria, Belgium, Canada, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Ireland, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Ukraine, United Kingdom

#### Languages

The database is bilingual with all graphical symbol data available in English and French (not always true for ISO 7000 graphical symbols). While viewing a graphical symbol data sheet you can switch back and forth between the two languages.

#### Links

All items in blue represent links to other elements or to specific action.

#### Finding a symbol

The database provides two methods for finding a symbol:

1. Search function (top right of each page)

You can combine two search terms with a boolean "AND", "OR" or "NOT" operator.

## 2. Categorized views

Graphical symbols are categorized by registration number (symbol ID), name, keyword, shape, function, application, TC/SC, publication and status. Some of the views are presently not available for IEC 60417 graphical symbols.

#### **Snapshots**

Snapshots of the database contents are made available for reference purposes in PDF format. Please click on "Snapshots" in the left panel for further information.

# Submitting proposals for change requests

The maintenance process for any changes to this joint IEC 60417 and ISO 7000 database, either for the inclusion of a new graphical symbol or a change to existing graphical symbols should be initiated by a change request (CR). Details are defined in the ISO/IEC Directives (IEC specific procedures, Annex SL for IEC 60417 graphical symbols, and ISO specific procedures, Annex ST for ISO 7000 graphical symbols).

In drafting technical content that may be included in the CR, please refer to IEC 80416-1, Basic principles for graphical symbols for use on equipment – Part 1: Creation of graphical symbols for registration and ISO 80416-2: Basic principles for graphical symbols for use on equipment – Part 2: Form and use of arrows. The most recent guidance for the wording of

IEC/ISO Graphical Symbols for Use on Equipment

the description for a symbol original can be found on both the IEC TC 3/SC 3C and ISO TC 145/SC 3 website.

Proposers of such change requests can <u>click here</u> to send an e-mail to the secretaries of IEC SC 3C and ISO TC 145/SC 3 who are responsible for the maintenance of IEC 60417 and ISO 7000, respectively.

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## **General description**

A graphical symbol is a visually perceptible figure used to transmit information independently of language. The graphical symbols for use on equipment are used for a wide range of purposes. For such graphical symbols, consistency in design of families of symbols used in one location or on similar equipment is an important issue, as is legibility when these symbols are reduced to small dimensions. Thus, there have been common provisions among areas covered by IEC and ISO on basic principles for graphical symbols for use on equipment to ensure visual clarity, to maintain consistency and thereby to improve recognition (see IEC 80416-1 and ISO 80416-2).

List

#### Scope

IEC 60417 graphical symbols are primarily intended to:

- identify the equipment or a part of the equipment (e.g. a control or display);
- indicate a functional state (e.g. on, off, alarm);
- designate connections (e.g. terminals, filling points for materials);
- provide information on packaging (e.g. identification of contents, instructions for handling);
- provide instruction for the operation of the equipment (e.g. limitations of use).

IEC 60417 does not apply to symbol originals for:

- safety signs;
- use on drawings and diagrams;
- use in technical documentation of products and in technical product documentation;
- use for public information.

IEC 60417 has the status of a horizontal standard in accordance with IEC Guide 108.

ISO 7000 provides a synopsis of those graphical symbols which are placed on equipment or parts of equipment of any kind in order to instruct the person(s) using the equipment as to its operation.

# Structure of the database

Each graphical symbol carries a registration number (symbol ID) and a name in English and French, together with a graphical representation in GIF and/or PNG and in vectorized PDF format. There are also several optional fields. Below is a full listing of all the database fields. Some of them do not apply presently to IEC 60417 graphical symbols.

- Symbol ID
- Name
- Graphical representation in GIF or PNG format
- Graphical representation in vectorized PDF format
- Status
- Product area
- Description
- Notes
- Date of release
- Date of withdrawal
- Application

- This is a preview click here to buy the full publication
- Shape
- Keywords - Publication reference
- Relevant TCs and publications
- Replacing
- Replaced by
- Change requests

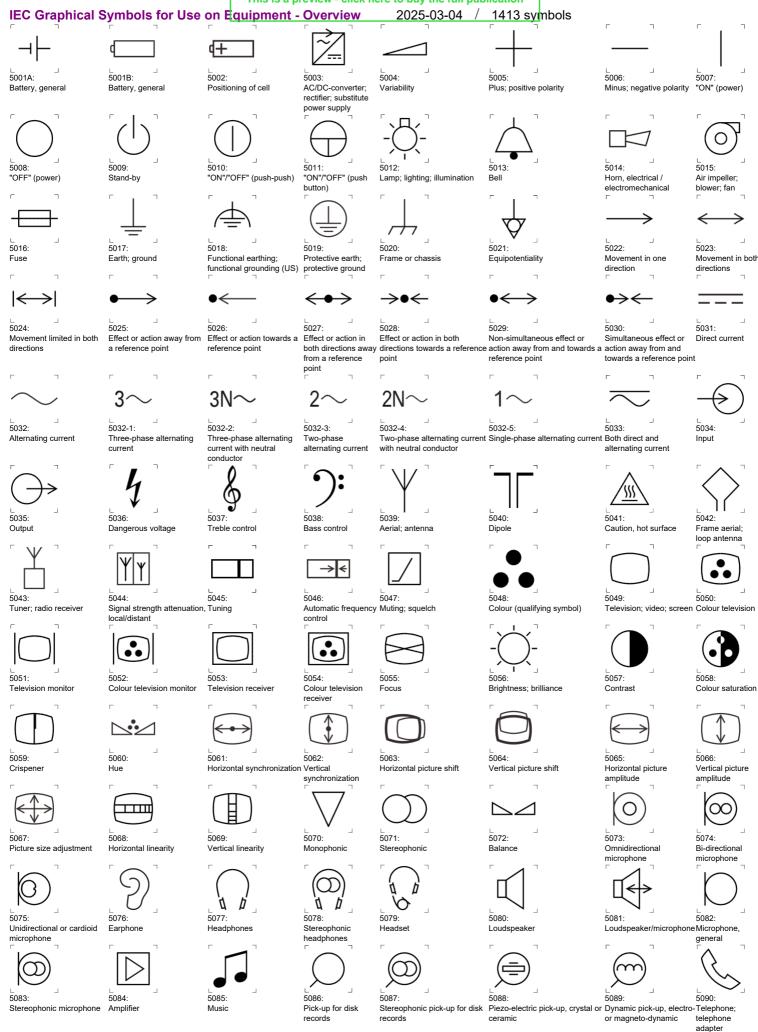
# How to use released graphical symbols

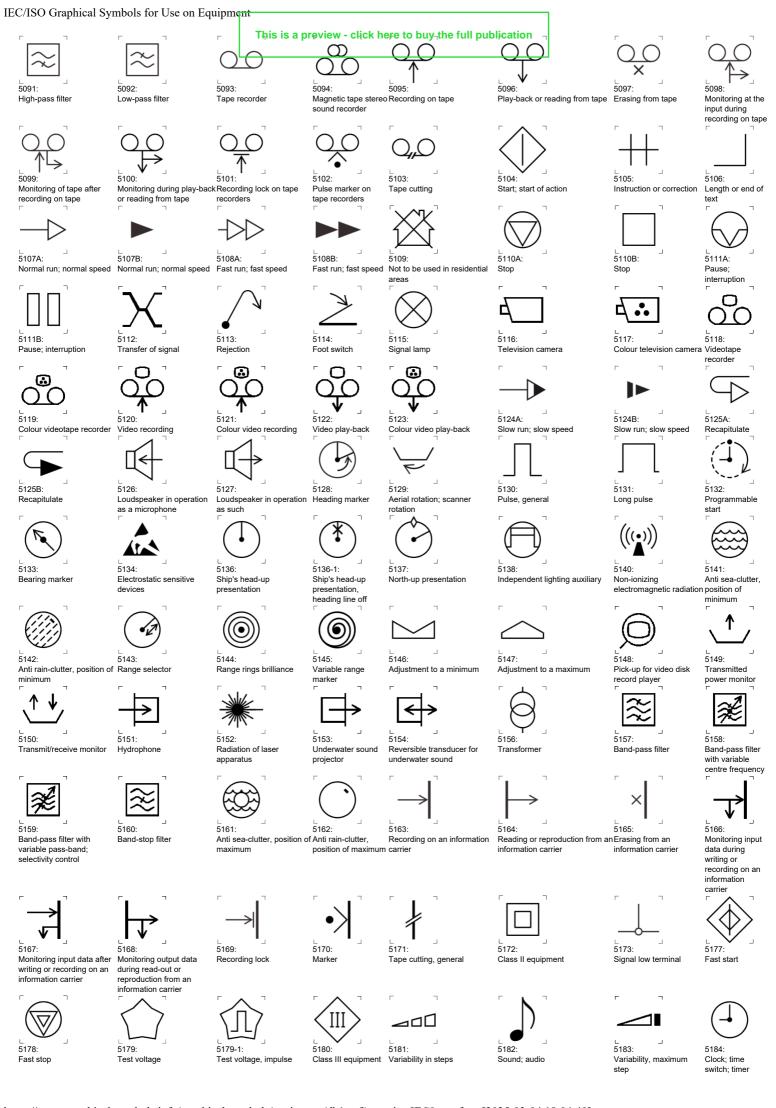
The graphical symbols are intended for use on equipment; generally speaking any kind of equipment. The field "Application" can be used to indicate more specifically for which type of equipment a graphical symbol is intended.

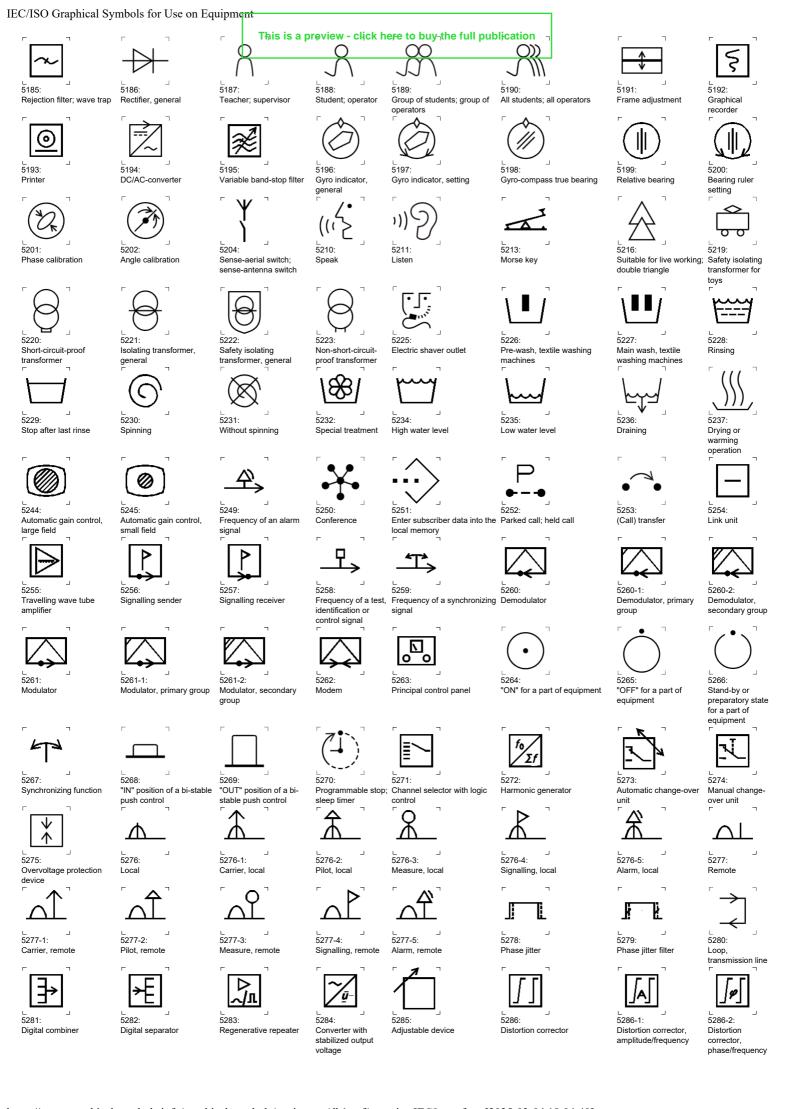
Guidelines for the application of graphical symbols for use on equipment are in IEC 80416-3. Supplementary guidelines for the adaptation of graphical symbols for use on screens and displays (icons) are in ISO 80416-4.

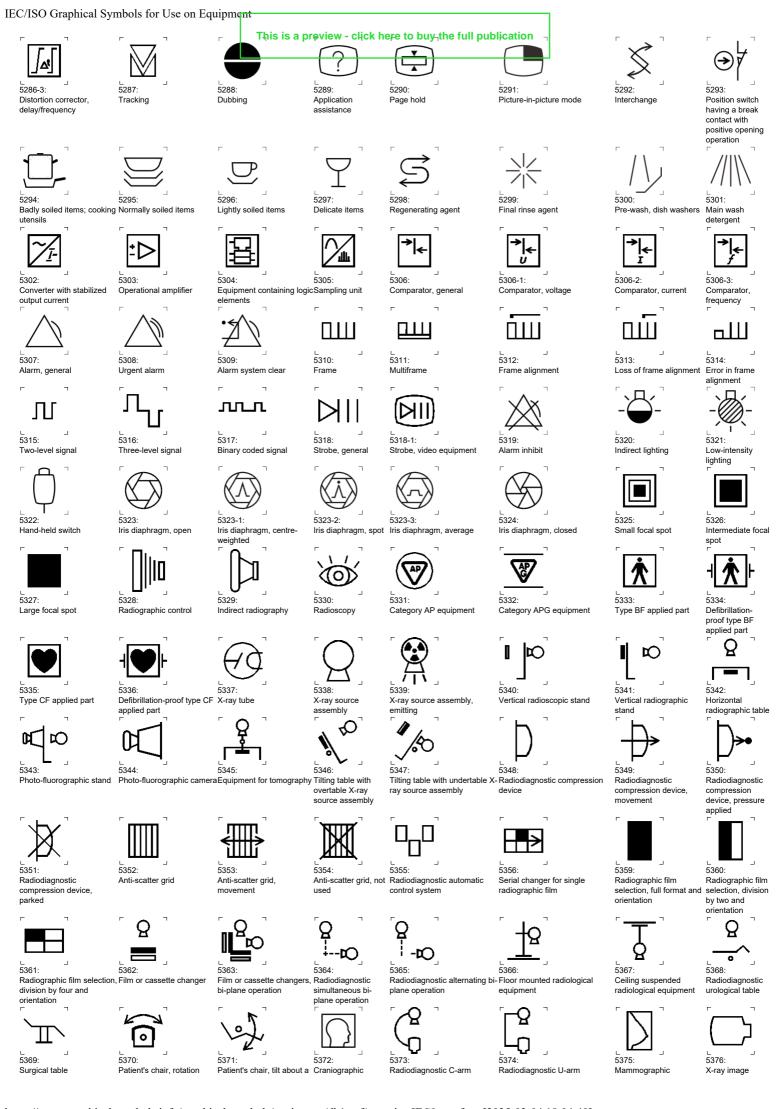
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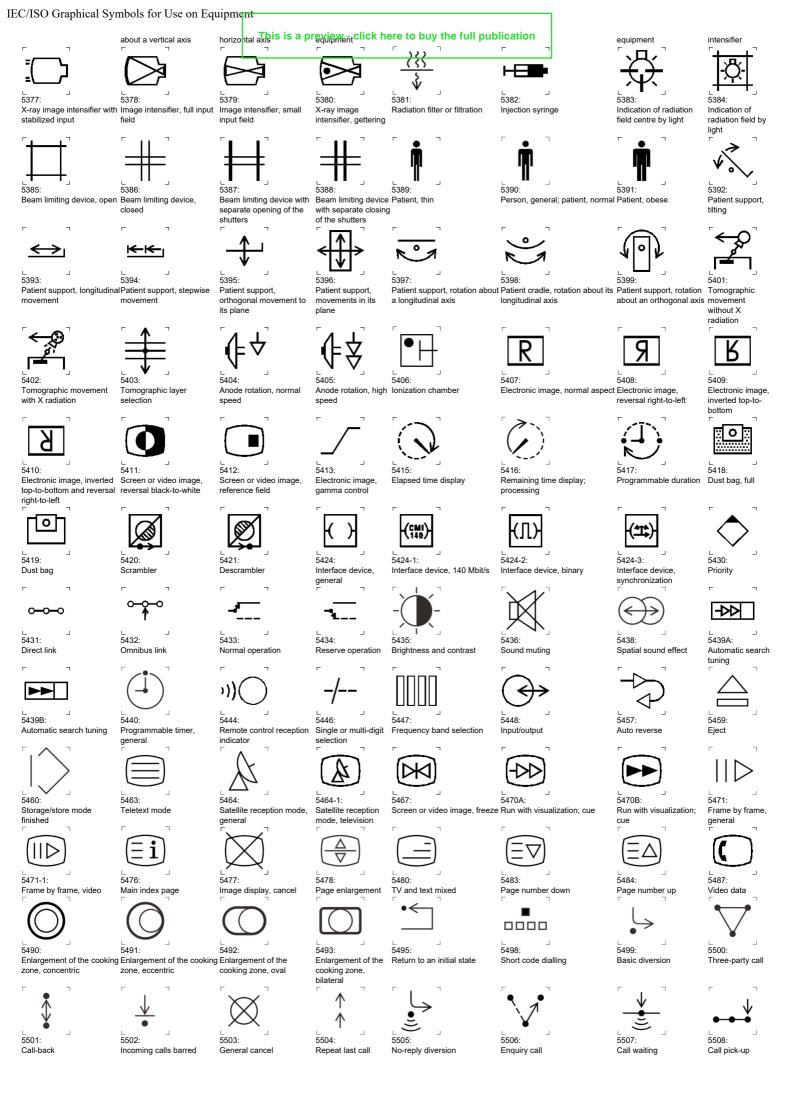
# This is a preview - click here to buy the full publication

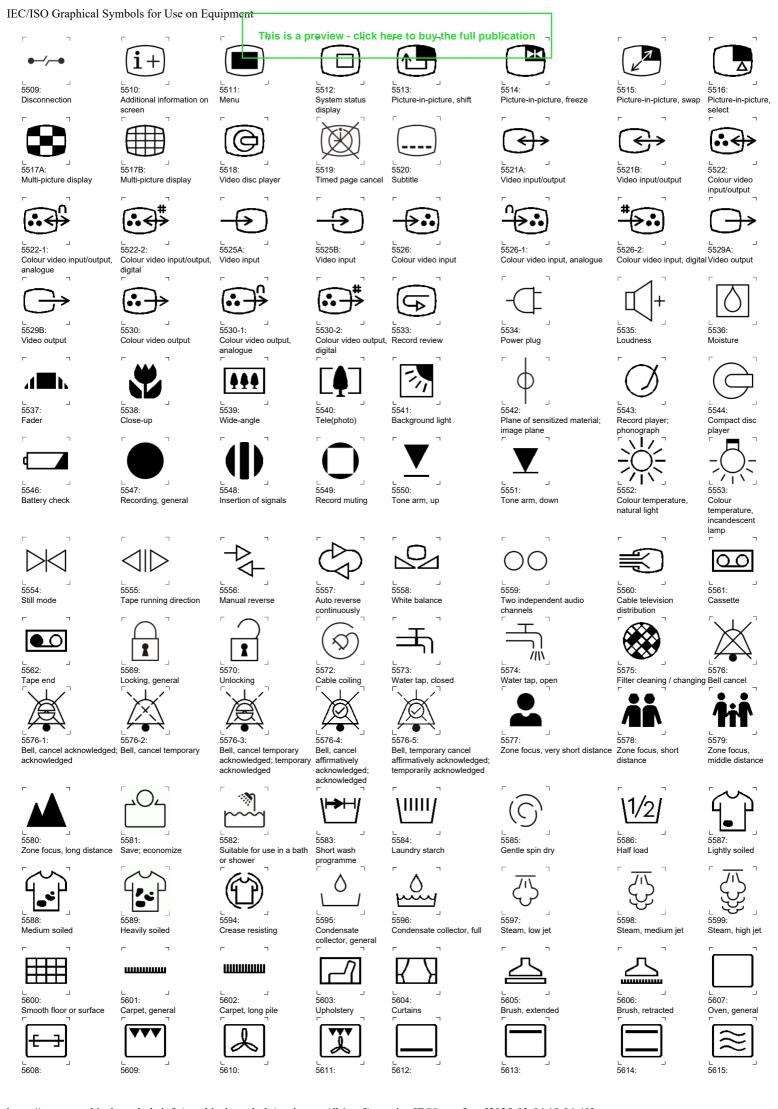


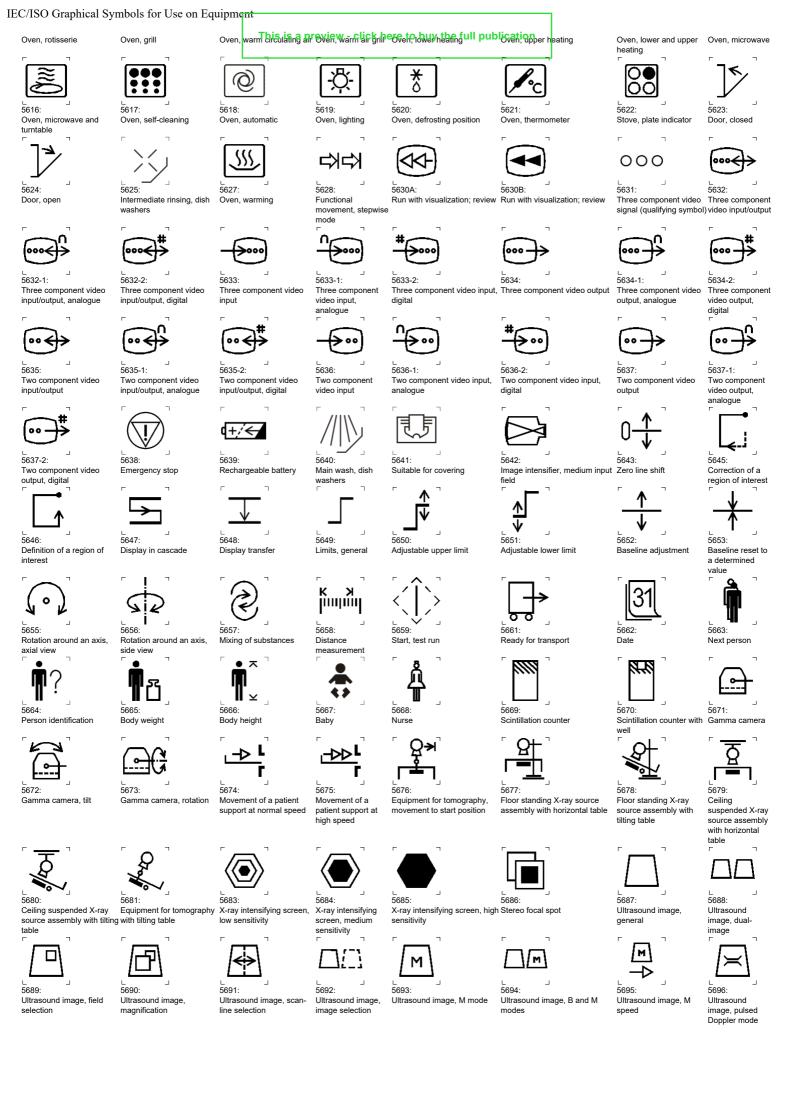


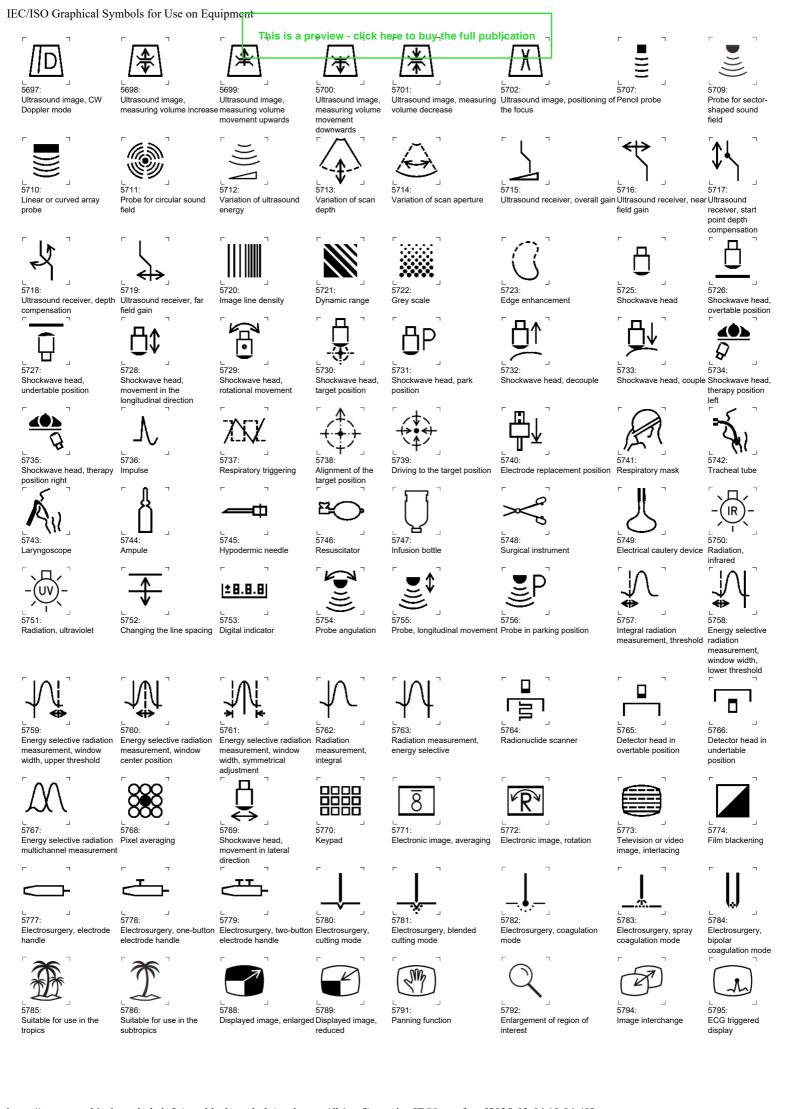


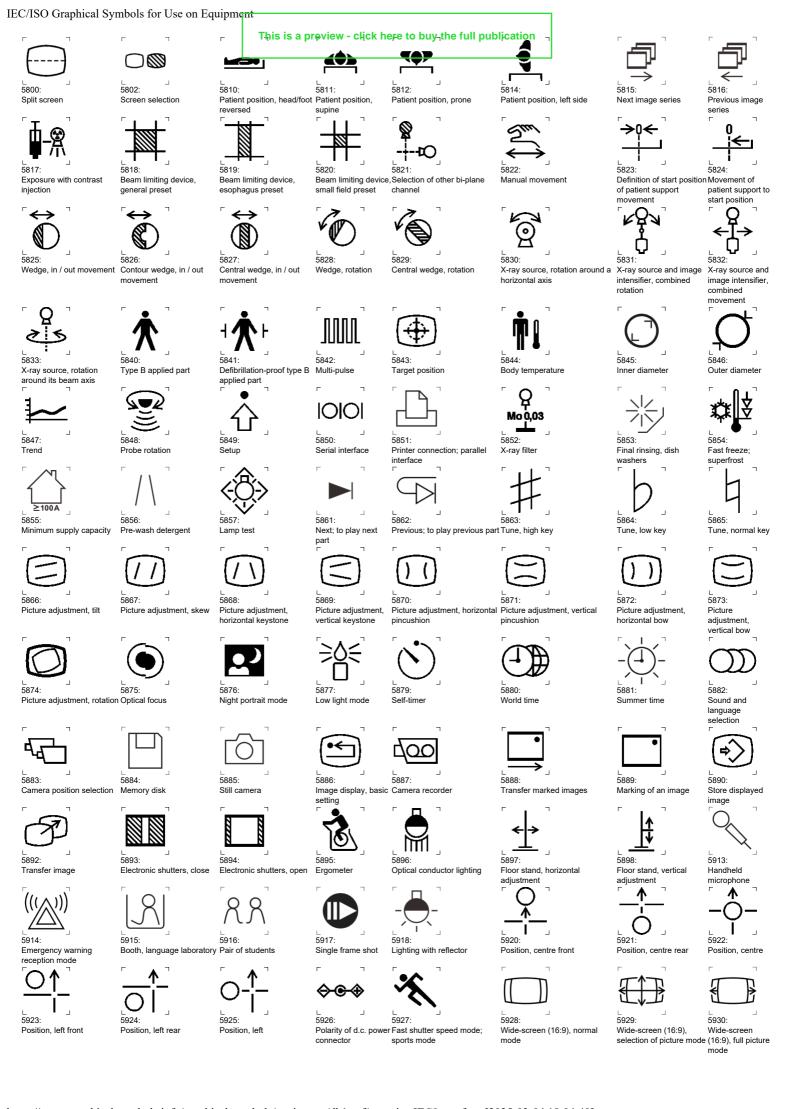


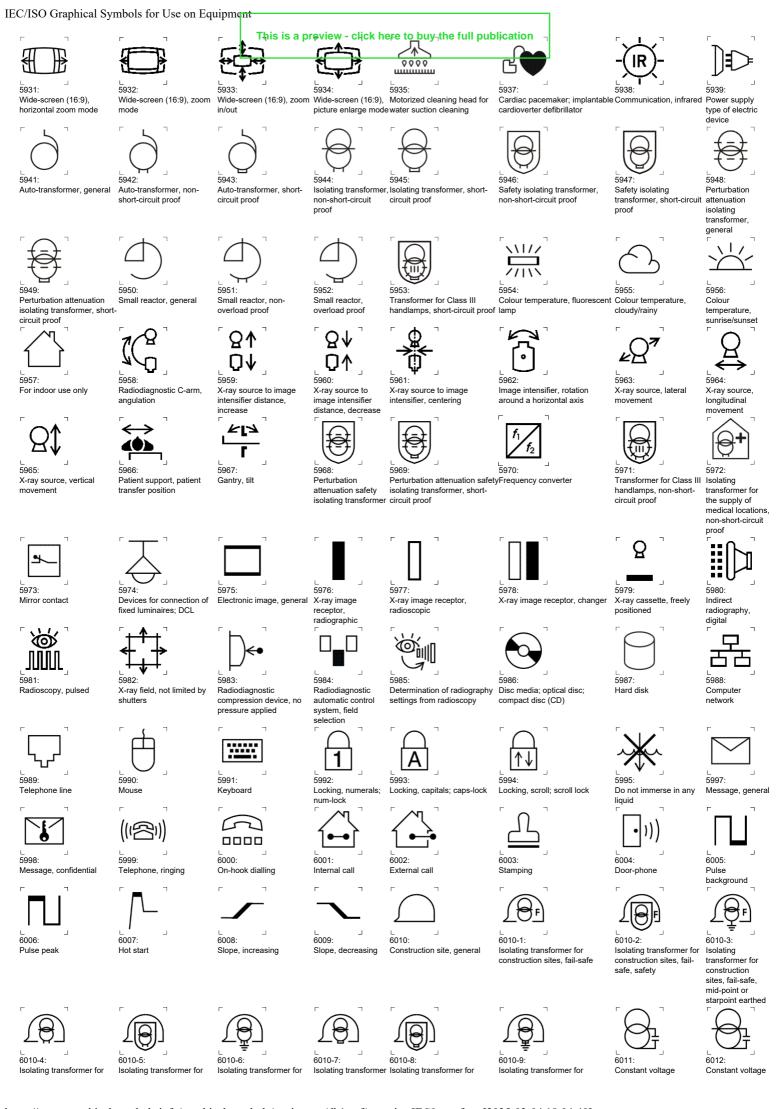












6075

6079-1:

stroke

Non-stopping dot

6076-1

6079-2:

Applicator, horizontal Applicator, diagonal slash

Separator, line

6076-2

6079-3:

Separator, paragraph

Applicator, overlaid tilde

6077-1

6079-4

Zero-width non-joiner

Applicator, hook below

6077-2

6079-5: Applicator, hook

ahove

Joiner, zero-width

]—[

Hyphen, non-breaking

6074

6078:

Mark, left-to-right

6072-9

6077-3:

Joiner, word

Space, hair

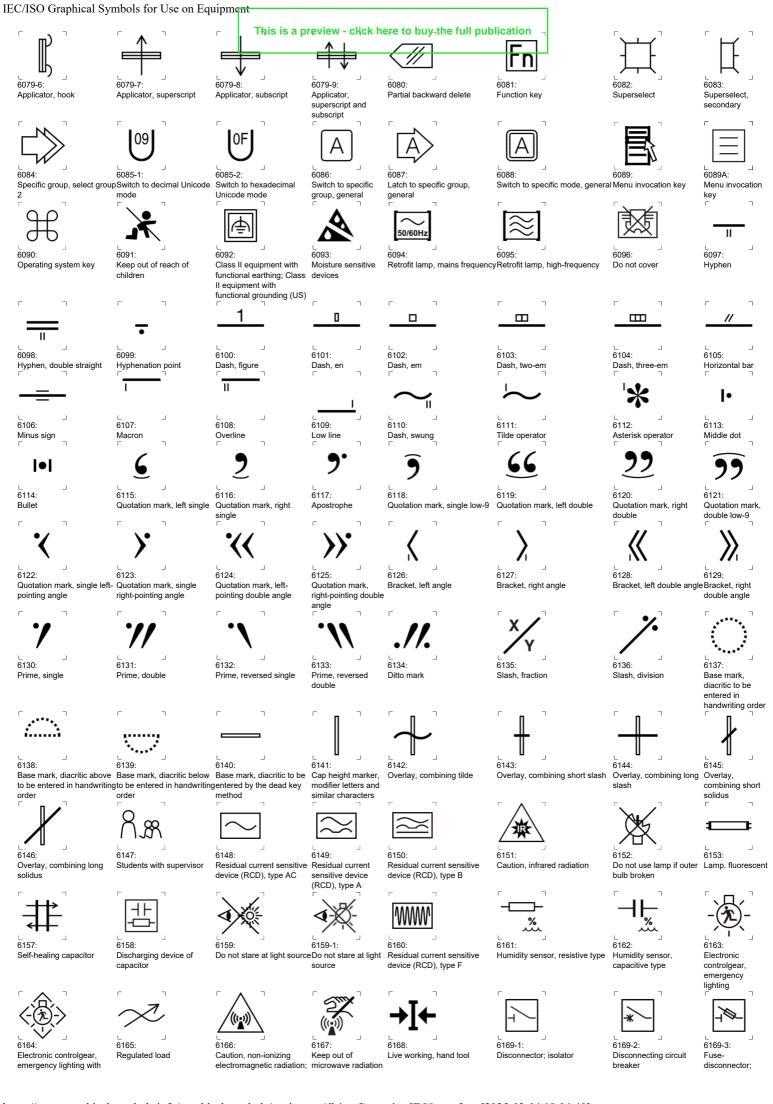
6073

6077-4:

grapheme

Joiner, combining

Hyphen, soft



6257

FLECTRO-IN: FL

6255

CALOR-IN: CI

6256

CALOR-OUT: CO

6258

6260:

ELECTRO-OUT; EO Vascular image recognition

general

6261:

hand

Vascular image recognition,

6262

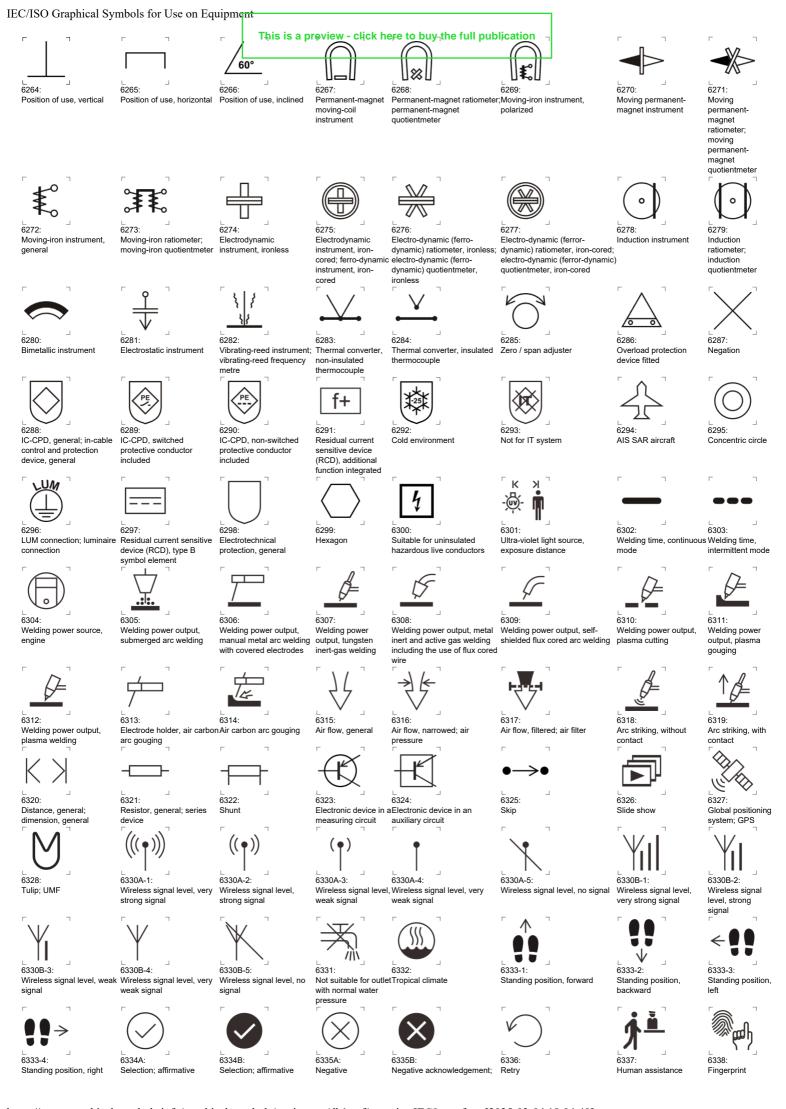
Vascular image

recognition, finger

6263:

change

Collector position



≥Am²

area

G

Communication

ports, galvanical port bidirectional

Communication ports,

Minimum room floo

6414:

out wheeled bin

WEEE; waste electrical and

Maximum operating depth

electronic equipment: crossed-

6416:

SSS ]

floor

Heating, direct

≥**2,3**m

≤1,2m

6445

Heating, wall

Emoji selection

6409

Resistive VDIS

0

optical port

Communication ports,

6440:

Capacitive VDIS

Risk of scalding

6418:

6410

Control and protective

switching device (CPS)

Communication ports,

inductive port

