Control Programming LLC

Release Notes

CPLLC Islamic Calendar

Version 5.00 · November 7, 2026

Product	CPLLC Islamic Calendar (Crestron Home extension)
Version	5.00
Release date	November 7, 2026
Where to find it	Drivers › Date-Time › Control Programming LLC › Islamic Calendar
Requires	Crestron Home OS 4.12 or later; no internet access, account or key needed
Licensing	An Islamic Calendar license key (cpllc.net/product/islamic-calendar) or a CPLLC site license key (cpllc.net/product/site-license), entered in the extension's Enter License Key, or a site license key once in the CPLLC License Manager

Overview

The CPLLC Islamic Calendar is a Crestron Home tile that shows today's date and Hijri date, and runs Crestron Home events at each of the five daily prayers, at Jumuah, at the end of suhoor and at iftar in Ramadan, and at the Maghrib that begins each holy day. Its page lists today's holy days and prayer times, and an Upcoming Events page steps through the holy days of the coming year. Everything is worked out on the processor from the house's latitude and longitude, by the calculation method the house's community follows, so it needs no internet connection and no outside service.

Capabilities

Capability	What it does
Prayer events	Fajr, Sunrise, Dhuhr, Asr, Maghrib and Isha every day, and Jumuah at Friday's Dhuhr, each up to 60 minutes early with the Prayer Event Offset. Each can start any Crestron Home sequence: an adhan on the audio system, lights, shades.

Capability	What it does
Ramadan events	Suhoor Ends at Fajr, up to 120 minutes early with the Suhoor Ends Offset, and Iftar at Maghrib, on every day of Ramadan.
Holy day events	Holy Day at the Maghrib that begins any holy day, and Ramadan Begins, Eid al-Fitr, Eid al-Adha and Islamic New Year for those four.
Holy days	Islamic New Year, the Day of Ashura, Mawlid an-Nabi, the night of Isra and Mi'raj, the night of Mid-Sha'ban, the first day of Ramadan, Laylat al-Qadr (the night of the 27th), Eid al-Fitr, the Day of Arafah and Eid al-Adha.
Today on the tile	The tile shows today's date and the Hijri date, in English or Arabic, and changes over at midnight.
Today's page	Today's holy days and those beginning tonight, the day of Ramadan, and the prayer times, with suhoor and iftar in Ramadan.
Upcoming Events	A second page steps through the coming holy days, a year ahead, with previous and next arrows.
Calculation methods	ISNA, Muslim World League, Egyptian General Authority, Umm al-Qura, Karachi, Tehran, Shia Ithna Ashari (Jafari), Kuwait, Qatar, Singapore and France (UOIF); the standard or Hanafi Asr; and a high latitude rule for places where the sun stays near the horizon in summer.
Hijri date	The Umm al-Qura calendar of Saudi Arabia or the tabular Hijri calendar, moved by up to two days either way to match the local moon sighting.
Sequence actions	Enable or disable the tile. A disabled tile shows Disabled and runs no events.
Home and room screens	The tile can be shown in its room, on the Home screen, or both.
Live changes	Installer options take effect as soon as OK is pressed in Setup, with no reload; debug output turns on and off while the processor runs.

What's New in 5.00

- First release, on the Crestron Home SDK V2 and the CPLLC 5.0 shared libraries.

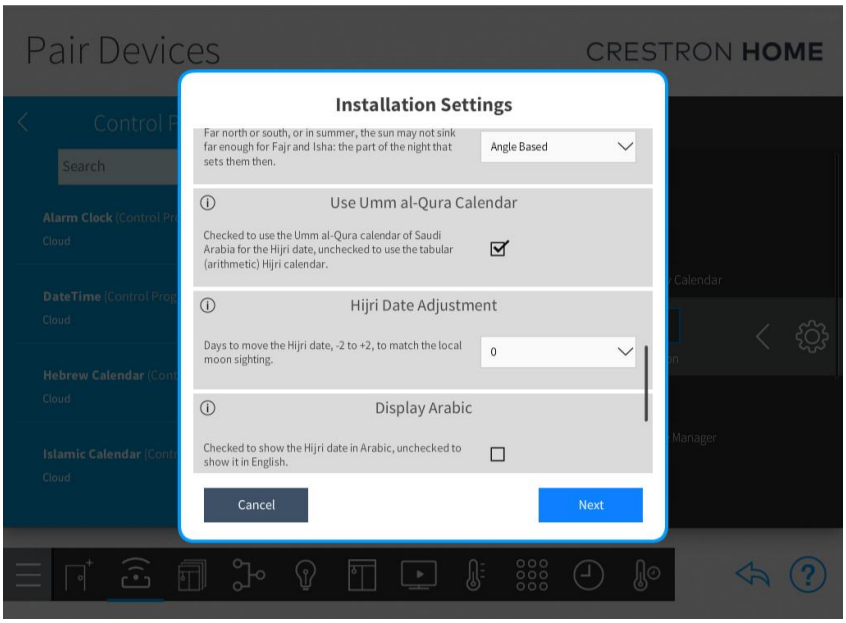
Installing

Add it from Drivers › Date-Time › Control Programming LLC › Islamic Calendar, enter its license key (or leave it blank on a site with a CPLLC site license) and the house's latitude and longitude, and choose the calculation method the house's community follows. Then add sequences to its events under its name in Customize Actions & Events.

The times are in the processor's own time zone, so set the processor's time zone to the house's in Crestron Home Setup.

Installer Options

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Islamic Calendar license key. Leave blank when the site has a CPLLC site license.
Show on Home Screen	Shows the tile on the Home screen (default off).
Show in Room Screen	Shows the tile in its room (default on).
Latitude	The house's latitude in decimal degrees, north positive, such as 35.970. A missing or out-of-range value is shown on the option in Setup.
Longitude	The house's longitude in decimal degrees, east positive and west negative, such as -85.060.
Obtain Latitude and Longitude	Opens a map that shows the latitude and longitude of any place clicked.
Calculation Method	The prayer time convention of the house's community: ISNA (North America) (the default), Muslim World League, Egyptian General Authority, Umm al-Qura (Makkah), University of Islamic Sciences, Karachi, Institute of Geophysics, Tehran, Shia Ithna Ashari (Jafari), Kuwait, Qatar, Singapore or France (UOIF).
Hanafi Asr	Checked for the Hanafi Asr, when a shadow is twice its object's length; unchecked for the Shafi'i, Maliki and Hanbali Asr, once its length (the default).
High Latitude Rule	Where the sun doesn't sink far enough for Fajr and Isha (far north or south, in summer), the part of the night that sets them: Angle Based (the default), Middle of the Night, One Seventh of the Night, or None.
Use Umm al-Qura Calendar	Checked to use the Umm al-Qura calendar of Saudi Arabia for the Hijri date (the default), unchecked to use the tabular Hijri calendar.
Hijri Date Adjustment	Days to move the Hijri date, -2 to +2 (default 0), to match the local moon sighting. The holy days and Ramadan move with it.
Display Arabic	Checked to show the Hijri date in Arabic, unchecked to show it in English (the default).
Prayer Event Offset	Minutes before each prayer time, and sunrise, to run its event, 0 to 60 (default 0).
Suhoor Ends Offset	Minutes before Fajr to run the Suhoor Ends event in Ramadan, 0 to 120 (default 0).



Installer settings: the calendar and the Hijri date

Sunrise and Maghrib are when the top of the sun meets the horizon; Fajr and Isha are when the sun is the method's angle below the horizon (Umm al-Qura and Qatar put Isha 90 minutes after Maghrib, 120 in Ramadan for Umm al-Qura); Dhuhr is solar noon. Times are rounded to the minute, and agree with the published timetables of each method.

Sequences

The Islamic Calendar adds these actions to Crestron Home sequences.

Action	Description
Extension Enable / Extension Disable	Enables or disables the tile. A disabled tile shows Disabled and runs no events.

The Islamic Calendar reports these events, under its name in Customize Actions & Events.

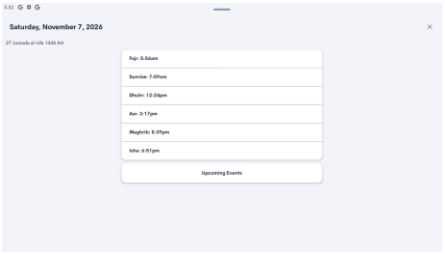
Event	Description
Fajr	The dawn prayer, less the Prayer Event Offset.
Sunrise	Sunrise, the end of Fajr's time, less the Prayer Event Offset.
Dhuhr	The noon prayer, less the Prayer Event Offset, every day, Friday included.
Jumuah	Friday's Dhuhr, less the Prayer Event Offset, besides Dhuhr.
Asr	The afternoon prayer, less the Prayer Event Offset.
Maghrib	The sunset prayer, less the Prayer Event Offset.
Isha	The night prayer, less the Prayer Event Offset.
Suhoor Ends	On each day of Ramadan, Fajr less the Suhoor Ends Offset.

Event	Description
Iftar	On each day of Ramadan, at Maghrib, when the fast is broken.
Holy Day	At the Maghrib that begins any holy day, the night of Isra and Mi’raj, Mid-Sha’ban and Laylat al-Qadr included.
Ramadan Begins	At the Maghrib that begins the first day of Ramadan, besides Holy Day.
Eid al-Fitr	At the Maghrib that begins Eid al-Fitr, besides Holy Day.
Eid al-Adha	At the Maghrib that begins Eid al-Adha, besides Holy Day.
Islamic New Year	At the Maghrib that begins the first of Muharram, besides Holy Day.
Extension Enabled / Extension Disabled	The tile was enabled or disabled.

When several events fall on one moment they run in this order: Maghrib, Iftar, Holy Day, then the holy day’s own event. A holy day begins at sunset on its eve, as every Hijri day does, so its events run the evening before its date.

End-User Experience

The tile shows today’s date with the Hijri date beneath it. Touching it opens today’s page, titled with the two dates, which lists today’s holy days, any that begin tonight at Maghrib, the day of Ramadan, and the day’s prayer times (with Jumuah on Friday, and suhoor and iftar in Ramadan). Upcoming Events, at the bottom, opens a page with the next holy day; its arrows step to the previous and next ones, a year ahead.



Today’s page



Upcoming Events: the eve of Ramadan

Without a valid license key or a CPLLC site license, the tile runs for a two-hour grace period after it starts; then it shows License Expired with an alert icon, and no events run. Entering a valid key, or adding a site license, clears it without a restart.

Known Limitations

- The Hijri date is calculated, not observed. Where a community begins its months with the sighting of the new moon, the date, Ramadan and the holy days can differ by a day; Hijri Date Adjustment moves them to match, and may need changing month by month.
- The times are those of the chosen method for the house’s latitude and longitude, at sea level; a local mosque’s timetable may add a few minutes of its own.

- Events run at the processor's clock, so its time and time zone must be right: the times are worked out for the house's latitude and longitude but shown, and run, in the processor's time zone, so a processor set to another zone than the house's shows them shifted. An event the clock was set past is not run late.
- Holy days other than those listed (Ghadir, the Shia commemorations other than Ashura, regional observances) are not shown.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R (its clock on Eastern time). The extension was added to a room from Drivers › Date-Time › Control Programming LLC › Islamic Calendar with its defaults (latitude 35.970, longitude -85.060, ISNA); the tile showed 27 Jumada al-Ula 1448 AH, today's page the six times, and Upcoming Events stepped from the eve of Isra and Mi'raj to the eve of Ramadan. The Isha event ran at its time (6:51pm Eastern, 5:51pm at the location). The calculation was also checked against the aladhan.com timetables: for Crossville, Tennessee by ISNA, Makkah by Umm al-Qura in Ramadan, and London in June by the Muslim World League with the Hanafi Asr, every time agreed within a minute, and the Hijri dates agreed.

Version History

Date	Version	Changes
2026-11-07	5.00	• Initial release • Rebuilt on the latest CPLLC libraries (no change to its options, actions or events)

Support

CPLLC Site License
A CPLLC site license is one key per processor, entered in the License Manager, that licenses every CPLLC extension and platform on that processor, current and future, so no product needs a key of its own. See the Site License page. Customers who already own CPLLC license keys can upgrade to a site license on the CPLLC website for the difference.

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Product page	https://cpllc.net/product/islamic-calendar/

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