Performance Report

RemoteCLIP_baseline

The testing procedure consists of evaluating the model with the following specifications on several datasets in order to perform zero-shot classification, few-shot classification, KNN classification and image retrieval.

model	CLIP
${f model_checkpoints}$	RemoteCLIP
datasets	'zero_shot': ['EuroSAT', 'MLRSNet', 'OPTIMAL_31', 'Pattern-
	Net', 'RESISC45', 'RSI_CB256', 'RSICD', 'RSITMD', 'SIRI_WHU',
	'UCM', 'WHU_RS19'], 'image_retrieval': ['RSICD', 'RSITMD', 'SID-
	NEY', 'UCM']
$\operatorname{text_template}$	a satellite photo of a
$lnr_prob_max_iterations$	1000
${f n}_{f n}$ neighbors	10
$image_retrieval_N_rank$	20
$include_baseline$	False

Zero-shot classification

EuroSAT	m MLRSNet	OPTIMAL_31	$\mathbf{PatternNet}$	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	$^{ m UCM}$	WHU_RS19
0.270	0.584	0.788	0.618	0.870	0.434	0.870	0.838	0.621	0.890	0.940

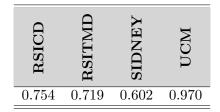
Linear-probe classification

EuroSAT	m MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	UCM	WHU_RS19
0.964	0.947	0.949	0.994	0.989	0.994	0.959	0.960	0.969	0.993	0.990

KNN classification

EuroSAT	m MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	Ω CM	WHU_RS19
0.933	0.935	0.914	0.988	0.988	0.987	0.956	0.971	0.929	0.979	0.985

Image To Text



Text To Image

